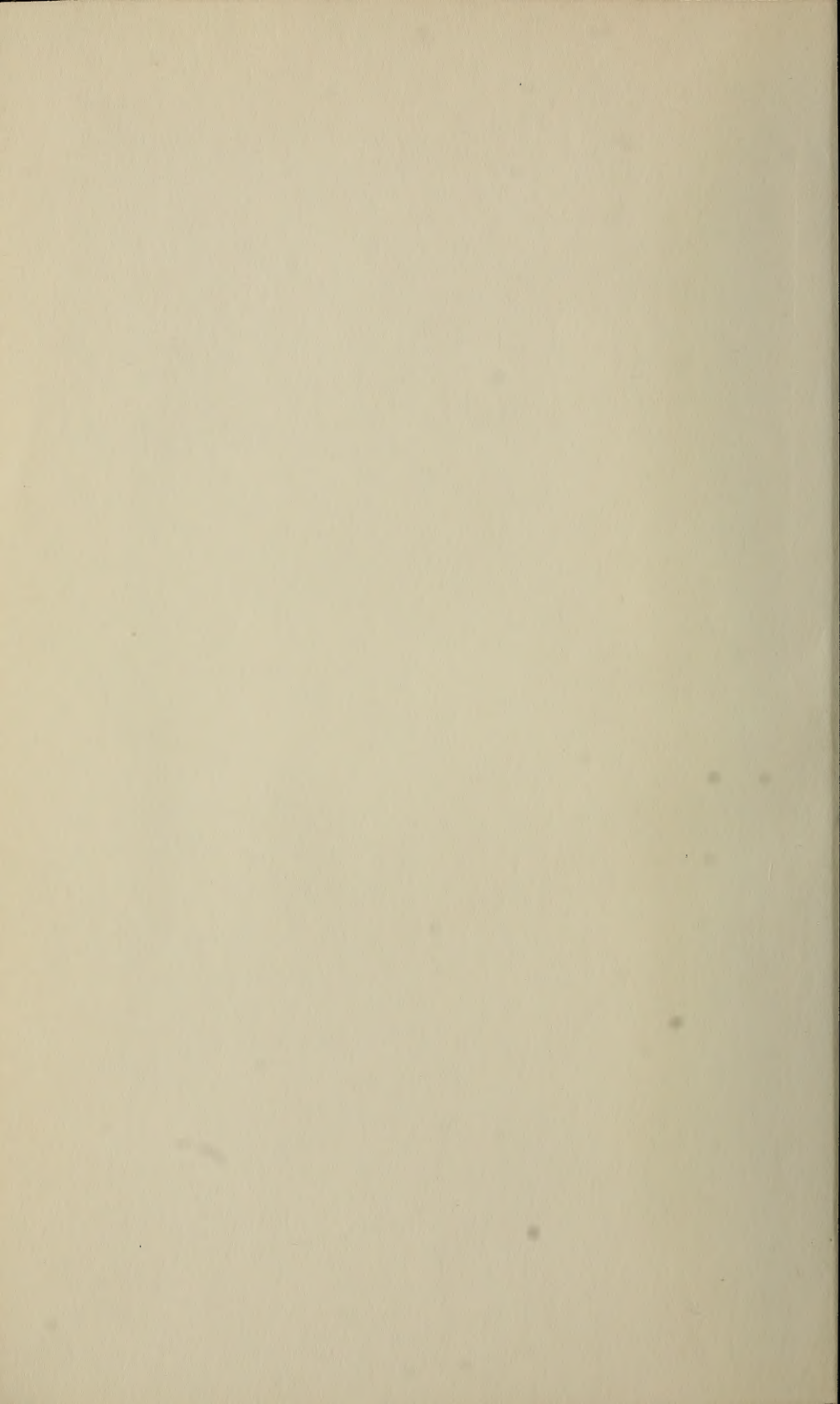


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BULLETIN 288

JUNE 1903

New York State Museum

FREDERICK J. H. MERRILL Director

Bulletin 66
MISCELLANEOUS 2

INDEX TO PUBLICATIONS

OF THE

NEW YORK STATE NATURAL HISTORY SURVEY

AND

NEW YORK STATE MUSEUM

1837-1902

ALSO INCLUDING OTHER NEW YORK PUBLICATIONS ON RELATED SUBJECTS

BY

MARY ELLIS

Indexer University of the State of New York

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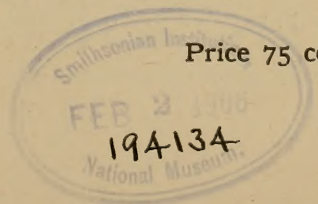
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New York State Museum

FREDERICK J. H. MERRILL Director

Bulletin 66

MISCELLANEOUS 2

INDEX TO PUBLICATIONS

OF THE

NEW YORK STATE NATURAL HISTORY SURVEY

AND

NEW YORK STATE MUSEUM

1837-1902

PREFACE

The New York State Museum was established at the time of the final arrangement of the collections of the Natural History Survey of New York in 1843. An act of the Legislature placing the collections in the custody of the Regents of the University was passed May 10, 1845, and the first official report was published in 1848. In 1870 a law was passed establishing the museum on a permanent basis. Till 1871 the museum was styled the State Cabinet of Natural History and appears thus on the titlepages of the early reports. For a description of the Natural History Survey of New York and the origin of the State Museum, see Museum bulletin 19, p. 240-45, Museum bulletin 56, p. 5-10, University handbook 5, also Subject index under Natural History Survey, p. 442.

The publications indexed are those of the New York State Museum from 1848-1902 inclusive; also the annual reports of the early Natural History Survey, 1837-41; the final quarto reports constituting the *Natural History of New York* published 1842-94; papers on geology and entomology in the transactions of the

New York State Agricultural Society, of the Albany Institute and in Regents reports; and entomological papers in reports of the Forest, Fish and Game Commission. Publications which will bear an imprint date later than 1902 are referred to as *In press*, or *In preparation*, and are not fully indexed.

The later museum reports have two sets of paging, the first being distinguished by the letter r prefixed to page numbers of the director's report. Dates covered by a report are in curves, followed by dates of publication. Volume and page numbers are separated by a colon; e.g. 3:141 means volume 3, page 141.

For explanatory matter referring particularly to the subject index, see p. 304.

In the preparation of this bulletin, the indexer has received invaluable assistance from the State Museum staff, to whom cordial acknowledgments are made.

MARY ELLIS

ABBREVIATIONS

New York State Museum. Publications. 1848-1902.

Reports	Mus. rep.
Bulletins	Mus. bul.
Memoirs	Mus. mem.
Geologist's reports	Geol. rep.
Paleontologist's reports	Pal. rep.
Entomologist's reports	Ent. rep.
Botanist's reports	Bot. rep.

Natural History Survey. Annual reports. 1837-41.

Mineralogy	Min. rep.
Geology	Geol. rep. 1st dist.
	" 2d "
	" 3d "
	" 4th "

Paleontology

Natural History of New York. Final reports. 1842-94.

Zoology	Zool. N. Y.
Botany	Bot. N. Y.
Mineralogy	Min. N. Y.
Geology	Geol. N. Y.
Agriculture	Ag. N. Y.
Paleontology	Pal. N. Y.

Illustrations of Devonian Fossils.....Ill. Dev. Foss.

New York State Agricultural Society. Transactions..Ag. Soc. Trans.

Albany Institute. Transactions.....Alb. Inst. Trans.

LIST OF PUBLICATIONS

Any of the University publications will be sold in lots of 10 or more at 20% discount. When sale copies are exhausted, the price for the few reserve copies is advanced to that charged by secondhand booksellers to limit their distribution to cases of special need. Such prices are inclosed in brackets.

All publications are in paper covers, unless binding is specified.

Museum annual reports for 1847-1900. 1848-1902.

Price for all in print to 1892, 50 cents a volume, 75 cents in cloth; 1892-date, 75 cents, cloth.

These reports are made up of the reports of the director, geologist, paleontologist, botanist and entomologist, and museum bulletins and memoirs, issued as advance sections of the reports.

1 (for 1847) 1848. 33+39+15 p. O.

Contents: Report of Chancellor, p. 3-4; Account, p. 5; Donations 1847, p.6; Catalogue of Mammalia and Birds Ap. 11, 1818, p.7-20; Beck, L. C. Catalogue of Specimens in the Mineralogical Department of the Geological Survey, p.21-33; Hall, James. Catalogue of Specimens in the Geological Department of the Geological Survey, 39p.; Hall, James. Catalogue of Specimens in the Palaeontological Department of the Geological Survey, 15p.

2 (for 1848) 1849. 91 p. 5 pl. (lith.) O.

Contents: Report of Chancellor, p. 9-12; Account, p. 13-14; Catalogue of Quadrupeds, Birds, Reptiles, Fishes etc. added Ap. 11, 1848 to Jan. 1, 1849, p.15-23; Fitch, Asa. Catalogue of Insects Dec. 1, 1848, p.25-39; Torrey, John. Catalogue of Plants of the State of New York, of which Specimens are preserved in the Cabinet at Albany, p.41-64; List of Minerals, Geological Specimens and Fossils added 1847 and 1848, p.65-70; Catalogue of the historical and antiquarian collection, p.71-79; Morgan, L. H. Communications from, p. 81-91; Ground Plans and Dimensions of Several Trench Inclosures in Western New York or Fort Hills, 5 pl.

3 (for 1849) 1850. 175 p. illus. 28 pl. (lith.) O.

Contents: Report of Chancellor, p. 9-12; Account, p. 14-16; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1849 to Jan. 1, 1850, p.17-26; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1849 to Jan. 1, 1850, p.27-46; Additions to the Historical and Antiquarian Collection, Jan. 1, 1849 to Jan. 1, 1850, p.47-60; Catalogue of Reptiles and Amphibians Jan. 1, 1850, p.61-64; Morgan, L. H. Report upon Articles Furnished the Indian Collection, p.65-97, 18 pl.; Hough, F. B. Ancient Remains of Art in Jefferson and St

Lawrence Counties, p.99-105, 5 pl.; Beck, L. C. Mineralogy of New York, p.107-51; References to Essays and Writings on the Natural History of New York, p.153-56; Index to Volumes in the State Cabinet containing the Plants of New York, p.157-66; Hall, James. New Species of Fossils from the Trenton Limestones, p.167-75. 5 pl.

3 *rev. ed.* (for 1849) 1850. 183p. 28 pl. (lith.) O.

Contents: Report of Chancellor, p.9-12; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1849 to Jan. 1, 1850, p.15-24; Catalogue of Reptiles and Amphibians Jan. 1, 1850, p.25-28; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1849 to Jan. 1, 1850, p.29-48; Additions to the Historical and Antiquarian Collection Jan. 1, 1849 to Jan. 1, 1850, p.49-62; Morgan, L. H. Report upon Articles Furnished to the Indian Collection, p.63-95. 18pl.; Hough, F. B. Ancient Remains of Art in Jefferson and St Lawrence Counties, p. 99-105. 5 pl.; Beck, L. C. Mineralogy of New York, p. 109-53; References to Essays and Writings on the Natural History of New York, p.155-60; Index to Volumes in the State Cabinet containing the Plants of New York, p.161-72; Hall, James. New Species of Fossils from the Trenton Limestones, p. 173-83. 5 pl.

4 (for 1850) 1851. 146 p. illus. 5 pl. (lith.) O.

Contents: Report of Chancellor, p. 9-12; Account, p. 14-16; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians etc. added Jan. 1, 1850 to Jan. 1, 1851, p.17-41; Fitch, Asa. Catalogue of Insects collected and arranged, p.43-69; Botany, p.71; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1850 to Jan. 1, 1851, p.73-90; Additions to the Historical and Antiquarian Collection Jan. 1, 1850 to Jan. 1, 1851, p.91-101; Hough, F. B. Notices of Ancient Remains of Art in Jefferson and St Lawrence Counties, p.103-9. 5 pl.; Salisbury, J. H. Analysis of a Specimen of Hematitic Iron Ore, p.111; References to various Writings relating to the Natural History of New York that have appeared during the Year, p.113-16; Hall, James. Catalogue of Specimens of the Rocks and Fossils in the Gray Sandstone, Medina Sandstone, Clinton Group, Niagara Group, Onondaga Salt Group, and a Part of the Water-lime Group, p.117-42; Memorandum of Drawers and Boxes of Fossils, p.143-46.

5 (for 1851) 1852. 117p. illus. 22pl. (lith.) O.

Contents: Report of Chancellor, p. 9-10; Account, p. 12-14; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1851 to Jan. 1, 1852, p.15-34. 2 pl.; Catalogue of Minerals, Geological Specimens and Fossils added Jan. 1, 1851 to Jan. 1, 1852, p.35-43; Additions to the Historical and Antiquarian Collection Jan. 1, 1851 to Jan. 1, 1852, p.45-54; References to various Writings relating to the Natural History of New York that have appeared during 1851, p.55-57; Meriam, E. Description of the Means employed to Remove the Rocks at Hellgate by Submarine Engineering, p.59-64; Materials belonging to the State, which have been used in Publishing the Natural History and the Annual Reports of the Regents received since Feb. 12, 1851, p.65-66; Morgan, L. H. Report on the Fabrics, Inventions, Implements and Utensils of the Iroquois, made Jan. 22, 1851, p.67-117. 20 pl.

6 (for 1852) 1853. 35 p. O.

Contents: Report of Chancellor, p. 7-8; Gebhard, John, jr. Statement and Proposal of, p.9-11; Catalogue of the Cabinet of Fossils of John Gebhard jr, p.12-13; Account, p.14-15; Catalogue of Quadrapeds, Birds, Reptiles, Amphibians etc. added Jan. 1, 1852 to Jan. 1, 1853, p.17-24; Catalogue of Minerals, Geological Specimens and Fossils added Jan. 1, 1852 to Jan. 1, 1853, p.25-28; Fossils which were Part of Gebhard Collection delivered by Hall to the Curator of the State Cabinet, p.29-30; Miscellaneous, p.31-32; Additions to the Historical and Antiquarian Collection Jan. 1, 1852 to Jan. 1, 1853, p.33-35.

7 (for 1853) 1854. 128p. illus. 2pl. (lith.) O.

Contents: Report of Chancellor, p.7-9; Account, p.10-11; Catalogue of Quadrapeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1853 to Jan. 1, 1854, p.13-26; Catalogue of Mollusca, Crustacea, etc. added Jan. 1, 1853 to Jan. 1, 1854, p.27-42; Additions to the Botanical Department Jan. 1, 1853 to Jan. 1, 1854, p.43-50; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1853 to Jan. 1, 1854, p.51-65; Additions to the Historical and Antiquarian Collection Jan. 1, 1853 to Jan. 1, 1854, p.67-72; Catalogue of Indian Relics, p.73-77; Cook, G. H. On the Nature of Specimens of Salt and Salt Water presented by him with an Analysis, p.79-93; Baird, S. F. On the Serpents of New York, p.95-124, 2pl.; Order of Publication of the Volumes of Natural History of New York, p.125; Materials to be used in Completing the Publication of the Natural History, p.127.

8 (for 1854) 1855. 69p. 1pl. (lith.) O.

Contents: Report of Chancellor, p. 7-8; Account, p. 9-10; Catalogue of Quadrapeds, Birds, Reptiles, Fishes etc. added Jan. 1, 1854 to Jan. 1, 1855, p.13-22; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1854 to Jan. 1, 1855, p.23-31; Additions to the Historical and Antiquarian Collection Jan. 1, 1854 to Jan. 1, 1855, p.33-39; Materials to be used in Completing the Publication of the Natural History, p.41-44; Miscellaneous, p. 45-48; DeKay, J. E. Catalogue of the Fishes Inhabiting the State of New York, p. 49-69.

9 (for 1855) 1856. 64 p. illus. O.

Contents: Report of Chancellor, p.7-8; Account, p.9; Catalogue of Birds, Reptiles, Amphibians, Fishes and Shells added Jan. 1, 1855 to Jan. 1, 1856, p.11-38; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1855 to Jan. 1, 1856, p.39-48; Additions to the Historical and Antiquarian Collection Jan. 1, 1855 to Jan. 1, 1856, p.49-60; Materials to be used in Completing the Publication of the Paleontology, p.61-63.

10 (for 1856) 1857. 190p. illus. O.

Contents: Report of Chancellor, p.7-8; Account, p.9; Addresses delivered at the Inauguration of the State Geological Hall, p.11-28; Catalogue of Fossils collected by Jewett, p.29-37; Hall, James. Descriptions of Palaeozoic Fossils, p.39-180; Hall, James. On the Genus *Tellinomya* and Allied Genera, p. 181-86; Miscellaneous, p. 187-90.

11 (for 1857) 1858. 44 p. O.

Contents: Report of Chancellor, p. 7-9; Account, p. 10; Catalogue of Geological Specimens from England, p.11-36; Catalogue of Shells, p.37-42; Catalogue of Fossils, p.43; Miscellaneous Contributions, p.44.

12 (for 1858) 1859. 111 p. illus. O.

Contents: Report of Chancellor, p.3-4; Account, p.5; Hall, James. Contributions to the Palaeontology of New York, p.7-96, 110; Donations and Purchases during 1858, p.97-109; Note on the genus Ambonychia, p.110.

13 (for 1859) 1860. 128 p. illus. 24 pl. (lith.) map. O.

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14 (for 1860) 1861. 109p. 20pl. (lith.) O.

Contents: Report of Chancellor, p. 7-8; Account, p. 9-10; Catalogue of Additions Jan. 1, 1860 to Jan. 1, 1861, p.13-15; Lincklaen, Ledyard. Guide to the Geology of New York and to the State Geological Cabinet, p.17-85, 20 pl.; Hall, James. Contributions to the Palaeontology of New York, p. 87-110.

15 (for 1861) 1862. 198p. illus. 11pl. (lith.) O.

Contents: Report of Chancellor, p. 7; Account, p. 9; Donations Jan. 1, 1861 to Jan. 1, 1862, p.13; Catalogue of Shells from John G. Anthony, p.15-21; Catalogue of Shells contributed from the Duplicates collected by the Exploring Expedition by Prof. Henry, p.23-25; Hall, James. Contributions to Palaeontology, p.27-197. 11 pl.; Jewett, Ezekiel. Letter regarding Fossils of the Chemung group, p.198.

16 (for 1862) 1863. 226p. illus. 16pl. (lith.) O.

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17 (for 1863) 1864. 60 p. O.

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18 (for 1864) 1865. 231p. illus. 2pl. (phot.) O.

Contents: Report of Chancellor, p. 5-7; Additions 1864, p. 11-16; Ward, H. A. Wadsworth Gallery of Casts of Fossil Animals, p. 17-52. 2 pl.; Paine, J. A. Catalogue of Plants found in Oneida County and Vicinity, p. 53-192; Peck, C. H. Catalogue of Mosses, p. 193-96; Clinton, G. W. Flora of the State, p. 197-205; Results of Meteorological Observations, p. 207-31.

19 (for 1865) 1866. 80 p. O.

Contents: Report of Chancellor, p. 5-7; Special Report of the Regents in Relation to the State Cabinet of Natural History, p. 8-32; Account, p. 33; Additions 1865, p. 39-41; Peck, C. H. List of Mosses, p. 42-70; List of Plants for State Herbarium collected by H. B. Lord, p. 71; Clinton, G. W. Flora of the State, p. 72-80.

20 (for 1866) 1867. 410p. illus. 21pl. (lith.) O.

Contents: Report of Chancellor, p. 5-8; Account, p. 11; Additions 1866, p. 15-18; Catalogue of Shells presented by Smithsonian Institution, p. 19-54; List of Specimens in the Economic Collection, p. 55-57; Catalogue of Books in the Library, p. 59-61; Wilson, W. D. Local Climatology, p. 63-106; Meteorological Observations, p. 107-40; Whitfield, R. P. Observations on the Internal Appendages of the Genus *Atrypa*, p. 141-44. 1 pl.; Notice of v. 4 of the Palaeontology of New York, p. 145-68; Hall, James. Introduction to the Study of the Graptolitidae, p. 169-239; Hall, James. Contributions to Palaeontology, p. 240-401. 16 pl.; Hall, James. Notes upon the Geology of some Parts of Minnesota; Note upon the Structure of the Mountain Region in the Northern Part of Georgia and Alabama, and the Adjacent Parts of Tennessee; Note upon the Geological Relations of the Oil-bearing Strata of Canada West; Peck, C. H. Flora of the State, p. 403-10.

^b20 rev. ed. (for 1866) 1868; issued 1870. 447p. illus. 23pl. (lith.) Q.

Contents: Report of Chancellor, p. 9-12; Account, p. 15; Additions 1866, p. 17-20; Catalogues of Shells presented by Smithsonian Institution, p. 21-60; List of Specimens in Economic Collection, p. 61-63; Catalogue of Books 1866, p. 64-66; Wilson, W. D. Local Climatology, p. 67-106; Results of Meteorological Observations, p. 107-41; Peters, C. H. F. Longitude of Western Boundary Line of State of New York, p. 143-57; Peck, C. H. Flora of the State, p. 159-66; Whitfield, R. P. Observations on the Internal Appendages of the Genus *Atrypa*, p. 167-72. 1 pl.; Notice of v. 4 of Palaeontology of New York, p. 173-99; Hall, James. Introduction to the Study of the Graptolitidae, p. 201-75. 4 pl.; Hall, James. Contributions to Palaeontology, p. 277-345; Hall, James. New or Little Known Species of Fossils from Rocks of the Age of the Niagara Group, p. 347-438. 17 pl.

21 (for 1867) 1871. 7+190p. illus. 9pl. (phot.) 4 maps. O.

Contents: Report of Chancellor, pref. p. 5-6; Account, pref. p. 7; Report of Curator, p. 5-12; Additions 1867, p. 13-19; Schedule of Contents of

^aTitles of these three papers appear in the table of contents, but the papers were never published, except the first which was printed in the Transactions of the American Philosophical Society. 1869. 13:329-41.

^b300 copies printed.

Pickett Collection, p. 20-21; Report of Botanist, p. 23-24; Morgan, L. H. Stone and Bone Implements of the Arickarees, p. 25-46. 6 pl.; Hunt, T. S. On the Mineralogy of the Laurentian Limestones of North America, p. 47-98; Hall, James. Cohoes Mastodon, p. 99-148. 2 pl. 4 maps; Index to Reports 1-20 Exclusive of Geologic and Palaeontologic Papers, p. 149-90.

22 (for 1868) 1869. 7+113 p. map. O.

Contents: Report of Chancellor, pref. p. 5; Account, pref. p. 6; Report of Curator, p. 1-7; Additions 1868, p. 9-16; Aldrich, T. H. Partial List of Shells found near Troy, N. Y., p. 17-24; Report of Botanist, p. 25-106; Merriam, C. L. Meteorological Report, p. 107-8; Hough, F. B. Early Observations upon Magnetic Variations, p. 109-13.

23 (for 1869) 1873. 9+252p. 14pl. (lith.) O.

Contents: Report of Chancellor, pref. p. 7-8; Account, pref. p. 9; Report of Curator, p. 5-15; Additions 1869, p. 17-26; Report of Botanist, p. 27-135. 6 pl.; Lintner, J. A. Entomological Contributions, p. 137-216. 2 pl.; Speyer, A. On *Cucullia Intermedia n. sp.* and *C. Lucifuga W. V.*, p. 217-22; Hall, James & Whitfield, R. P. Descriptions of Devonian Fossils, p. 223-43. 4 pl.; Hall, James. New or Imperfectly Known Forms among the Brachiopoda, p. 244-47. 2 pl.; Hall, James. Reply to a Note on a Question of Priority, p. 248-52.

24 (for 1870) 1872. 7+232p. 9pl. (lith.) O.

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25 (for 1871) 1873. 7+123p. 2pl. (lith.) O.

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26 (for 1872) 1874. 6+192 p. illus. O.

Contents: Report of Chancellor, pref. p. 5-6; Report of Director, p. 5-15; Additions 1872, p. 17-25; List of Iron Ores in Economic Collection, p. 27-30; Record of Borings of Gardner Oil Well no. 3 at East Shamburg, Pennsylvania, p. 31-33; Report of Botanist, p. 35-91; Hall, James. Descriptions of Bryozoa and Corals of the Lower Helderberg Group, p. 93-116; Lintner, J. A. Entomological Contributions no. 3, p. 117-92.

27 (for 1873) 1875. 7+148p. 7pl. (lith.) map. O.

Contents: Report of Chancellor, pref. p. 7; Report of Director, p. 5-21; Additions 1873, p.23-40; List of Rock Specimens from Cumberland, Eng. p.41-42; List of Land and Fresh Water Shells presented by T. H. Aldrich, p. 43-46; List of Gould types of Mollusca in Museum Collection, p. 47-55; List of Building Stones in Economic Collection, p.57-71; Report of Botanist, p. 73-116, 2 pl.; Hall, James. The Niagara and Lower Helderberg Groups; their Relations and Geographical Distribution, p.117-31; Hall, James. Descriptions of New Species of Goniatitidae, p.132-36; Lintner, J. A. Entomological Contributions, p.137-48.

28 (for 1874) 1879. 7+210p. 37pl. (lith.) O. (State Museum ed.)

Contents: Report of Chancellor, pref. p. 7; Report of Director, p. 5-16; Additions 1874, p.17-30; Report of Botanist, p.31-88, 2 pl.; Walcott, C. D. Discovery of the Remains of the Natatory and Branchial Appendages of Trilobites, p. 89-92; Walcott, C. D. New Species of Fossils from the Trenton Limestone, p. 93-97; Hall, James. Fauna of the Niagara Group in Central Indiana, p. 99-203, 32 pl.; Some Remarkable Crinoidal Forms from the Lower Helderberg Group, p. 205-10, 3 pl.

29 (for 1875) 1878. 82p. 2pl. (lith.) O.

Contents: Report of Chancellor, p. 7; Report of Director, p. 11-18; Additions 1875, p. 19-28; Report of Botanist, p. 29-82, 2pl.

30 (for 1876) 1878. 7+256 p. 4 pl. (lith.) O.

Contents: Report of Chancellor, pref. p. 7; Report of Director, p. 5-12; Additions 1876, p. 13-22; Report of Botanist, p. 23-78, 2 pl.; Leeds, A. R. Lithology of the Adirondacks, p. 79-109; Hall, J. W. & Fritz-Gaertner, R. On the Structure of *Astraeospongia meniscus*, p.111-16, 1 pl.; Lintner, J. A. Entomological Contributions no. 4, p.117-254; Hall, James. Genus *Plumalina*, p.255-56, 1 pl.

31 (for 1877) 1879. 6+78p. 1pl. (lith.) O.

Contents: Report of Chancellor, pref. p.4; Report of Director, p.5-10; Additions 1877, p. 11-17; Report of Botanist, p. 19-60; Walcott, C. D. Some Sections of Trilobites from the Trenton Limestone, p. 61-65, 1 pl.; Walcott, C. D. Eggs of the Trilobite, p.66-67; Walcott, C. D. New Species of Fossils from the Chazy and Trenton Limestones, p.68-71; Fritz-Gaertner, R. *Phlogopyte*, p. 72-78.

32 (for 1878) 1879. 7+176 p. O.

Contents: Report of Chancellor, pref. p.7; Report of Director, p.5-9; Additions 1878, p. 10-16; Report of Botanist, p. 17-72; Peck, C. H. Mosses of Caledonia Creek, p. 73-74; Lintner, J. A. Insects and Other Animal Forms of Caledonia Creek, N. Y., p. 75-99; Webster, H. E. Annelida chaetopoda of New Jersey, p.101-28; Walcott, C. D. New Species of Fossils from the Calcareous Formation, p. 129-31; Hall, C. E. Laurentian Magnetic Iron Ore Deposits in Northern New York, p. 133-40; Hall, James. Bryozoa and Corals of the Lower Helderberg Group, p. 141-76.

33 (for 1879) 1880. 49p. 2pl. (lith.) O.

Contents: Report of Chancellor, p. 3-4; Report of Director, p. 5-10; Report of Botanist, p. 11-49, 2 pl.

34 (for 1880) 1881. 58p. 4pl. (lith.) O.

Contents: Report of Chancellor, p. 3-4; Report of Director, p. 5-12; Additions 1880, p.13-19; Additions to the Library 1880, p.20-23; Report of Botanist, p. 24-58. 4 pl.

35 (for 1881) 1884. 481 p. 30 pl. (lith.) map. O.

Contents: Report of Chancellor, p. 5-6; Report of Director, p. 7-11; Additions 1881, p.13-18; Distribution of Duplicate Fossils and Minerals, p.19-27; List of Species in each of Ten Duplicate Collections of Fossils for High Schools and Academies, p.29-32; List of Species and Specimens of Cephalopoda, p.33-66; Crinoidea from Tentaculite Limestone, p.67; List of Unionidae of the Gould Collection, p.68-81; List of Unionidae of the New York State Collection, p.82-83; List of Unionidae of the General Collection, p.84-101; List of Land Shells of the New York State Collection, p.102-6; List of Corbiculadae of the New York State Collection, p.107; List of Land Shells of the United States in the Museum Collection, p.108-11; List of Shells presented in 1875 by Dr James Lewis, p.112-17; Statistics Relating to the State Museum, as compiled from the Report made to the Tenth Census of the United States Jan. 4, 1882, p. 118-19; Hall, J. W. Machinery and Methods of Cutting Specimens of Rocks and Fossils, p.121-24. 2 pl.; Report of Botanist, p.125-64; De Tarr, D. N. List of the Rhizopoda found in the Vicinity of Albany, N. Y., p. 165-67; Simpson, G. B. Anatomy and Physiology of Anodonta fluviatilis, p.169-91, 11 pl.; Wright, S. H. Aboriginal Work on Bluff Point, Yates co. N. Y., p. 193-94. 1 pl.; Wright, B. H. Geology of Yates County, N. Y., p. 195-206. 3 pl.; Walcott, C. D. New Species of Fossils from the Trenton Group of New York, p. 207-14. 1 pl.; Hall, James. Lamellibranchiate Shells of the Upper Helderberg, Hamilton and Chemung Groups, p. 215-406g; Hall, James. Fossil Corals from the Niagara and Upper Helderberg Group, p. 407-64. 8 pl; Hall, James. Species of Fossil Reticulate Sponges Constituting the Family Dictyospongiidae, p.465-82. 4pl.

36 (for 1882) 1883. 94p. 6pl. (lith.) O.

Contents: Report of Chancellor, p. 7-8; Report of Director, p. 9-15; Additions 1882, p. 17-20; List of Niagara fossils from Waldron, Indiana, p.21-25; List of Genera and Species of Brachiopoda of which Sections have been prepared for the Microscope, p.26; Report of Botanist, p.27-49; Beecher, C. E. Some Abnormal and Pathologic Forms of Fresh-water Shells from the Vicinity of Albany, N. Y., p. 51-55. 2 pl.; Hall, James. Bryozoa of the Hamilton Group, p. 57-72; Hall, James. On the Structure of the Shell in the Genus Orthis, p. 73-75. 2 pl.; Hall, James. New Species of Stylonurus from the Catskill Group, p. 76-77. 1 pl.; Beecher, C. E. List of Species of Fossils from an Exposure of Utica Slate and Associated Rocks within the Limits of the City of Albany, p.78; Murray, David, *comp.* Catalogue of the Published Works of James Hall, p. 79-94; Illustration of Cryptozoön, pl.6.

37 (for 1883) 1884. 68 p. O.

Contents: Report of Vice-chancellor, p. 7-9; Act to regulate the State Museum and the Publication of the Palaeontology of the State, p. 11-12; Contract between the State of New York by the Trustees of the State

Museum and Charles H. Van Benthuyssen, p. 12-16; Contract between the State of New York by the Trustees of the State Museum and James Hall, State Geologist, p.16-18; Report of Director, p.19-24; Current Work, p.25; Additions 1883, p.27-31; Catalogue of Translucent Sections of Rocks and Fossils. p.33-43; Report of Entomologist, p.47-60; a Report of Botanist, p. 63-68.

38 (for 1884) 1885. 138p. 3pl. (lith.) O.

Contents: Report of Chancellor, p. 3-5; Report of Director, p. 7-15; Additions 1884, p.16-20; List of Minerals in the General Collection, p. 21-60; Report of Geologist, p. 61-65; Report of Entomologist, p. 67-76; Report of Botanist, p. 77-138. 3 pl.

39 (for 1885) 1886. 229p. 12pl. (lith.) map. O.

Contents: Report of Chancellor, p. 7-8; Report of Director, p. 9-14; Additions 1885, p. 15-29; Report of Botanist, p. 30-73. 2 pl.; Report of Entomologist, p. 77-125; Simpson, G. B. Anatomy of the Snail, p. 127. 1 pl.; Webster, H. E. Annelida chaetopoda of New Jersey, p.128-59. 7 pl.; Hall, James. Obscure Organisms in Roofing Slates of Washington County, N. Y., p. 160. 1 pl.; Beecher, C. E. A Spiral Bivalve Shell from the Waverly Group of Pennsylvania, p. 161-63. 1 pl.; Smock, J. C. Crystalline Rock Region of Dutchess, Putnam and Westchester Counties, N. Y., p. 166-85; Hall, James. Building Stones, p. 186-225; Report of Geologist, p. 226-29.

40 (for 1886) 1887. 163 p. O.

Contents: Report of Vice-chancellor, p. 5-8; Report of Director, p. 11-19; Additions 1886, p. 21-34; Smock, J. C. Report of Field Work for 1886, p. 35-36; Report of Botanist, p. 37-77; Report of Entomologist, p. 79-154; Report of Geologist, p. 155-63 (Supplement to Geol. rep. 6).

41 (for 1887) 1888. 410p. illus. 9pl. (lith.) map. O.

Contents: Report of Chancellor, p. 9-11; Report of Director, p. 13-25; Additions 1887, p.27-34; Additions to Library, p.35-43; Catalogue of Gems and Precious Stones, p.44-48; Report of Botanist, p.49-122. 1 pl.; Report of Entomologist, p. 123-358; Report of Geologist, p. 359-410, 8 pl.
Contents of Geol. rep. 7 in Mus. rep. 41: Palaeontology of New York, v. 6, p. 361-78; Beecher, C. E. Synoptical Table of the Genera and Species described in v. 6 of the Palaeontology of New York, p. 363-75; Synopsis of Contents of Palaeontology of New York v. 7, p. 378-80; Hall, James. Palaeontology of New York v. 8, p. 381-82; Beecher, C. E. Statement of Condition of Work on Brachiopoda, Palaeontology of New York, v. 8, p. 383-84; Beecher, C. E. Lamellibranchiata. List of Genera Illus. and not Illus. on Plates of Geol. Rep. for 1882, p.385-87; Clarke, J. M. Supposed Mastodon Bones Found at Attica, N. Y., p. 388-90. 1 pl.; Hall, James. Description of New Species of Fenestellidae of the Lower Helderberg; with explanation of plates illus. species of the Hamilton group, described in Geol. rep. for 1886, p. 391-410. 8 pl.

42 (for 1888) 1889. 496p. illus. 3pl. (lith.) O.

Contents: Report of Chancellor, p. 9-13; Report of Director, p. 17-36. 1 pl.; Report of Assistant in Charge, p. 37-49; Additions to Collections,

^aTitles of four articles are enumerated but not printed here. The articles appear in Mus. bul. 2.

p.50-64; Additions to Library, p.65-74; Murray, David. Catalogue of Published Works of James Hall, p.75-97; Report of Botanist, p.99-144. 2 pl.; Report of Entomologist, p. 145-347; Report of Geologist, p. 349-496.

Contents of Geol. rep. 8 in Mus. rep. 42: Report of Geologist, p. 351-402; Palaeontology of New York, v. 7, p. 351-69; List of Type Specimens of Devonian Crustacea described in Palaeontology of New York v. 7, in the Possession of Museum, p. 370-73; Palaeontology of New York v. 8, p. 373-88; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p. 389-92; List of Microscopic Sections of Brachiopoda, p.392-93; List of Preparations for v. 8, p.393-94; List of Plates of Brachiopoda, p.394-95; Schuchert, Charles. List of Fossils in the Oriskany Sandstone of Maryland, New York and Ontario, p. 396-400; Clarke, J. M. Genus *Bron-teus* in the Chemung Rocks, p.403-5; Clarke, J. M. List of Species Constituting the known Fauna and Flora of Marcellus Epoch in N. Y., p. 406-7; Clarke, J. M. Hercynian Question, p. 408-37; Bishop, I. P. Locality of Flint Implements in Wyoming County, N. Y., p. 438-40; Catalogue of Specimens Representative of the Taconic System, p.441-44; List of Plates, Drawings, names of Draughtsmen and Lithographers for Palaeontology of New York v. 5, pt 1 and 2, v. 7 and 8, p.445-49; Record of Locality Numbers, p. 450-96.

43 (for 1889) 1890. 274p. illus. 4pl. (lith.) map. O.

Contents: Report of Assistant in Charge, p. 11-20; Additions to collections, p. 21-37; Additions to Library, p. 37-47; Report of Botanist, p. 49-97. 4 pl.; Report of Entomologist, p.99-205; Report of Geologist, p. 207-74.

Contents of Geol. rep. 9 in Mus. rep. 43: Report of Geologist, p. 209-27; Palaeontology of New York v. 8, p. 209-18; Geological Map of the State of New York, p. 218-27; Hall, James. Fossil Dictyospongidae of the Devonian and Carboniferous Formations, p. 227-29; Schuchert, Charles. On *Syringothyris*, Winchell, and its American Species, p.230-39; Schuchert, Charles. List of Species of the American Palaeozoic *Orthis*, *Spirifera*, *Spiriferina* and *Syringothyris*, p.240-57; Hall, James. New Forms of Dictyospongidae from the Rocks of the Chemung Group, p.258-62; Record of Locality Numbers, p.263-74.

44 (for 1890) 1892. 405 p. illus. 12 pl. (lith.) O.

Contents: Report of Director, p. 11-16; Report of Assistant in Charge, p.17-21; Additions to Collections, p.22-26; List of Catalogues of Shells published in Former Annual Reports, p.27; Catalogue of Mounted Mammals in the Collection, Sep. 30, 1890, p.28-30; Catalogue of the Collection of Mammalian Osteology, p.31-33; Report of Geologist, p.35-114, 5 pl.; Report of Botanist, p. 115-87. 4 pl.; Report of Entomologist, p. 197-405. 3 pl.

Contents of Geol. rep. 10 in Mus. rep. 44: Report of Geologist, p. 37-55; Palaeontology of New York v. 8, p. 37-44; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p.45-48; Original Drawings for Palaeontology of New York v. 8, p. 49; List of Figures for v. 8, p.49-51; Lists of Microscopic Sections of Brachiopoda, p.52-53; Clarke, J. M. Report of Assistant Palaeontologist, p.59-61; List of Accessions to the Depart-

ment of Palaeontology, p. 62-64; Hall, James. Descriptions of Bryozoa, p. 65-87; Clarke, J. M. Genus *Acidaspis*, p. 91-101. 3 pl.; Clarke, J. M. *Coronura aspectans*, p.105-9. 1 pl.; Clarke, J. M. *Terataspis grandis*, p.111-14, 1 pl.; (Additional papers in geologist's edition).

45 (for 1891) 1892. 616p. illus. 2pl. (phot.) map. O.

Contents: Report of Director, p. 11-13; Report of Assistant Director, p. 14; Report of Assistant Zoologist, p. 15-19; Additions to Collections, p. 20-28; Catalogue of Muricidae, p. 29-45; Marshall, W. B. A Deposit of Marl and Peat in the Town of New Baltimore, p. 46-52; Bishop, I. P. Salt Industry of Central New York, p. 53-61; Report of Botanist, p. 63-102; Report of Entomologist, p. 103-320. 2 pl.; Report of Geologist, p. 321-616.

Contents of Geol. rep. 11 in Mus. rep. 45: Report of Geologist, p. 323-45; Livonia Salt Shaft, p. 326-28; Palaeontology of New York, v. 8, p. 328-29; Clarke, J. M. List of Preparations of Spirals, Loops and Hinge-plates for v.8, pt2, p.330-31; List of Genera of Palaeozoic Brachiopoda, p.331-37; Additions to Palaeontological Collections, p. 338-44; Clarke, J. M. Catalogue of the Collection of Geological and Palaeontological Specimens Donated by the Albany Institute, p.347-69; Clarke, J. M. Report of Assistant Palaeontologist, p. 370-71; Clarke, J. M. List of Original and Illustrated Specimens in the Palaeontological Collections, pt 1, Crustacea, p. 373-437; Record of Localities of Extra Limital Geological and Palaeontological Collections, p.438-39; Clarke, J. M. On *Cordania*, a Proposed New Genus of Trilobites, p. 440-43; Publications of Geologist, p.444-47; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, p. 449-616.

46 (for 1892) 1893. 495 p. illus. O.

Contents: Report of Director, p. 11, 62-81; Report of Assistant Director, p.12-14; Report of Assistant Zoologist, p.15-61; Additions to Zoological Collections, p.21-27; Catalogue of Zoological Collections, p.29-61; Collections of Fossils made for Palaeontology of New York Previous to 1883, p.62-65; List of Boxes of Fossils in State Hall, p.66-74; Additions to Collections in Geology and Palaeontology, p.75-77; School Collections, p.77-79; Museum Publications, p.79-81; Report of Botanist, p.83-149; Report of Geologist, p.151-288; Report of Entomologist, p.289-495.

Contents of Geol. rep. 12 in Mus. rep. 46: Report of Geologist, p. 153-87; Palaeontology of New York v. 8, pt 1, p. 160-68; Palaeontology of New York v. 8, pt 2, p. 169-71; Geological Map of the State of New York, p. 171-84; Geological Surveys and Maps of Part of the State of New York, p.184-85; Clarke, J. M. Report of Assistant Palaeontologist, p.189-95; Additions to the Geological and Palaeontological Collections 1891-92, p.196-99; Clarke, J. M. List of Original and Illustrated Specimens in the Palaeontological Collections, pt 2, Annelida and Cephalopoda, p. 201-50; Emerson, B. K. Two Boulders of a very Basic Eruptive Rock from the West Shore of Canandaigua Lake, p.251-55; Prosser, C. S. Devonian Section of Central New York along the Unadilla River, p. 256-88.

47 (for 1893) 1894. 1137p. illus. pl. (phot.) maps. O.

Contents: Report of Director, p. 9-19; Report of Assistant Palaeontologist, p.17; Additions to Palaeontological Collection, p.18; Report of Assistant Director, p.21-30; Report of Assistant Zoologist, p.30-34; Additions to Collections, p.35-40; World's Fair Exhibits, p.41-75; Catalogue of Zoological Collections, p.77-128; Report of Botanist, p.129-74; Report of Entomologist, p. 175-97; Report of Geologist, p. 199-1137.

Contents of Geol. rep. 13 in Mus. rep. 47: Hall, James. Livonia Salt Shaft, its History and Geological Relations, p. 203-14; Luther, D. D. Geology of the Livonia Salt Shaft, p. 215-324; Clarke, J. M. Succession of the Fossil Faunas in the Section of the Livonia Salt Shaft, p. 325-52; Clarke, J. M. New or Rare Species of Fossils from the Horizons of the Livonia Salt Shaft, p. 353-83; Geological Survey of the State of New York, Reports, p.385-751; Darton, N. H. Relations of the Helderberg Limestones and Associated Formations in Eastern New York, p. 391-422; Darton, N. H. Geology of Albany County, p. 423-55; Nason, F. L. Economic Geology of Albany County, p. 457-81; Darton, N. H. Geology of Ulster County, p. 483-566; Nason, F. L. Economic Geology of Ulster County, p. 567-600; Darton, N. H. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties, p.601-23; Kemp, J. F. Geology of Essex County, p.625-66; Cushing, H. P. Geology of Clinton County, p. 667-83; Smyth, C. H. jr. Geology of Four Townships in St Lawrence and Jefferson Counties, N. Y., p. 685-709; Randall, F. A. Geology of Cattaraugus and Chautauqua Counties, p. 711-21; Clarke, J. M. Field Work in Chenango County, p.723-51; Clarke, J. M. *comp.* List of Publications relating to the Geology and Palaeontology of New York 1876-93, p.753-91; *Department of Palaeontology (v. 2 of Geol. rep.)* p.793-1137; Palaeontology of New York v. 8, pt 2, p. 797-802; Clarke, J. M. Evolution of the Genera of the Palaeozoic Brachiopoda, p.803-40; Description of New Species figured in v. 8, pt 2 of Palaeontology of New York, p. 841-51; Sherzer, W. H. Platynemic man in New York, p. 853-77; Simpson, G. B. Genera of Fenestellidae, p.879-921; Simpson, G. B. Glossary and Explanations of Specific Names of Bryozoa and Corals, p.923-41; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, pt 2, p.943-1137.

48 (for 1894) 1895. v.1, 650p.+p. 93-595, illus. pl. (phot.) maps. O. v. 2 (Report of Geologist), 669p. illus. 44 pl. (lith.) other pl. (phot.) maps. O. v. 3, 44 pl. (lith.) (on edible fungi). O.

Contents, v. 1: Report of Director, p.11-39; List of Accessions, p.13; List of Awards to Mineral Exhibit at World's Fair, p.14-15; Catalogue of New York Woods, p.16-20; Catalogue of Building Stones, p.21-31; Catalogue of Rock Specimens collected by Kemp, p.32-39; Report of Geologist, p. 41-44; Marshall, W. B. Geographical Distribution of New York Unionidae, p. 45-99; Report of Botanist, p. 101-337. 44 pl. in v. 3; Report of Entomologist, p.339-635; Report of Assistant Zoologist, p. 637-47; Marshall, W. B. List of Shells Inhabiting the Vicinity of Albany and Troy, N. Y., p. 641-47; Index, p. 648-50; Bulletin 12, Ries, Heinrich. Clay Industries of New York, p. 93-262 (2d paging); Bulletin 13, Lintner, J. A. San José Scale, *Aspidiotus perniciosus* and Some

Other Destructive Scale Insects of New York State, p.263-305 (2d paging); Bulletin 14, Kemp, J. F. Geology of Moriah and Westport Townships, Essex co., p.323-55 (2d paging); Bulletin 15, Merrill, F. J. H. Mineral Resources of New York State, p.359-595 (2d paging);

Contents of Geol. rep. 14 in Mus. rep. 48 v. 2: Staff of geologist, p. 5; Report of Geologist and Palaeontologist, p.7-29; Preface to Palaeontology of New York, v. 8, pt 2, p. 21-28; Geological Survey of the State of New York, Reports, p. 31-125; Darton, N. H. Faulted Region of Herkimer, Fulton, Montgomery and Saratoga Counties, p. 31-53; Beecher, C. E. & Hall, C. E. Field Notes on the Geology of the Mohawk Valley, p. 54-56; Lincoln, D. F. Geology of Seneca County, p. 57-125; Bernard, Felix. Principles of Palaeontology ed. by J. M. Clarke, p.127-215; Ruedemann, Rudolf. Development and Growth of Diplograptus, p. 217-49. 5 pl.; Girty, G. H. Revision of the Sponges and Coelenterates of the Lower Helderberg group of New York, p. 259-309. 7 pl.; Hall, James & Clarke, J. M. New Species of Brachiopoda Described in Palaeontology of New York v. 8, pt 1 and 2, p. 323-72. 14 pl.; Simpson, G. B. Handbook of the Genera of the North American Palaeozoic Bryozoa, p. 403-669. 30 pl.

49 (for 1895) v. 1, 1897, v. 2-3, 1898. v. 1, 6+334p. illus. 6 pl. (lith.) other pl. (phot.) O. v. 2 (Report of Geologist) 738p. illus. pl. (phot.) maps. Q. v. 3 (Report of Geologist) p.739-984. illus. 47 pl. (lith.) Q.

Contents, v. 1: Report of Director, p. 1-10; Additions to Collections, p. 9-10; Report of Geologist and Paleontologist, p.11-15; Report of Botanist, p.17-83. pl.44-49; Report of Entomologist, p.85-329; Index, p.331-34.

Contents of Geol. rep. 15, v. 1 in Mus. rep. 49, v. 2: Report of Geologist and Palaeontologist, p.7-26; Geological Survey of the State of New York, Reports, p. 27-698; Clarke, J. M. Stratigraphic and Faunal Relations of the Oneonta Sandstones and Shales, the Ithaca and the Portage Groups in Central New York, p. 27-81; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt 1, p. 83-222; Luther, D. D. Stratigraphic position of the Portage Sandstones in the Naples Valley and the Adjoining Region, p. 223-36; Luther, D. D. Economic Geology of Onondaga County, p. 237-303; Bishop, I. P. Geology of Erie County, p. 305-92; Ries, Heinrich. Geology of Orange County, p.393-475; Smyth, C. H. jr. Crystalline Rocks of St Lawrence County, p. 477-97; Cushing, H. P. Geology of Clinton County, p. 499-573; Kemp, J. F. Geology of Essex County, p. 575-614; Prosser, C. S. & Cumings, E. R. Sections and Thickness of the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley, p. 615-59; Smyth, C. H. jr. Talc Industry of St Lawrence County, p. 661-71; Ries, Heinrich. Physical tests of the Devonian Shales, p. 673-98; Ruedemann, Rudolf. Discovery of a Sessile Conularia, p. 699-728; Clarke, J. M. Crustaceans from the Chemung Group, p. 729-38.

Contents of Geol. rep. 15, v. 2 in Mus. rep. 49, v. 3: Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae; pt 1, p. 741-984. 47 pl.

- 50 (for 1896) v. 1, 1898, v. 2, 1899. v. 1, 4+403+134p. illus. pl. (phot.) maps. O. v. 2 (Report of Geologist), 8+448p. illus. 32pl. (lith.) other pl. (phot.) maps. Q.

Contents, v. 1: Report of Director, p.1-20; Additions to Museum Collections, p.12-20; Geology of Crystalline Rocks of Southeastern New York, p.21-31; Origin of Serpentine in the Vicinity of New York, p. 32-44; Public Geologic and Mineralogic Collections in the United States and Canada, p. 45-74; Index to Report of Director, p. 75-76; Report of Botanist, p. 77-159; Report of Entomologist, p. 161-403; Bulletin 16, Beauchamp, W. M. Aboriginal Chipped Stone Implements, p. 3-84 (2d paging); Bulletin 17, Merrill, F. J. H. Road Materials and Road Building in New York p. 87-134 (2d paging).

Contents of Geol. rep. 16 in Mus. rep. 50 v. 2: Report of Geologist and Palaeontologist, pref. p.7-8; Geological Survey of the State of New York, Reports, p.1-27, 171-226; Cushing, H. P. Boundary Between the Potsdam and Precambrian Rocks North of the Adirondacks, p. 1-27; Clarke, J. M. Naples Fauna in Western New York, p. 29-161. 9 pl.; Clarke, J. M. Early Stages of Certain Goniatites, p. 163-69; Luther, D. D. Brine Springs and Salt Wells of New York and the Geology of the Salt District, p.171-226; Grabau, A. W. Faunas of the Hamilton Group of Eighteen-mile Creek and Vicinity in Western New York, p. 227-339; Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongiadae, pt 2, p. 341-448. pl. 48-70.

- 51 (for 1897) 1899. v.1, r153+410p. illus. 9pl. (lith.) other pl. (phot.) maps. O. v.2 (Report of Geologist), 564p. illus. pl. (phot.) maps. O.

Contents, v.1: Report of Director, p.r5-13; Additions to Collections, p.r13-20; White, T. G. Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties, p.r21-54; Watson, T. L. Some Higher Levels in the Postglacial Development of the Finger-lakes, p.r55-117; Nevius, J. N. Talc Industry of St Lawrence County, N. Y., p.r119-27; Nevius, J. N. History of Cayuga Lake Valley, p.r129-53; Bulletin 18, Beauchamp, W. M. Polished Stone Articles Used by the New York Aborigines, p.3-102; Bulletin 19, Merrill, F. J. H. Guide to the Study of the Geological Collections of the New York State Museum, p.105-262; Report of Botanist, p.263-321. 9 pl.; Report of Entomologist, p.327-90; General Index, p.391-410.

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- 52 (for 1898) 1900. v.1, r111+695p. illus. 6pl. (lith.) other pl. (phot.) maps. O. v.2 (Report of Geologist), 169p. illus. pl. (phot.) maps. O.

Contents, v.1: Report of Director, p.r5-17; Accessions to Collections, p.r18-32; Bagg, R. M. jr. Report of Work on the Collections of Mesozoic and Cenozoic Fossils in Geological Hall, p.r32-40; Catalogue of Mesozoic and Cenozoic Fossils, p.r40-46; Catalogue of European Fossils presented by Murchison, p.r47-71; Bagg, R. M. jr. *comp.* Synoptic Catalogue of Fossils, p.r71-78; Nevius, J. N. Fossil Plant from Orange County, p.r79-81; Nevius, J. N. Sacandaga Mining and Milling Co. and the Sutphen Process, p.r82-87; Ries, Heinrich. Notes on a Trip from Port Jervis to Rondout, p.r88-91; Bean, T. H. Fishes of Long Island, p.r92-111; Bulletin 20, Felt, E. P. Elm-leaf Beetle in New York State, p.1-43. 1pl.; Bulletin 21, Kemp, J. F. Geology of Lake Placid Region, p.47-67; Bulletin 22, Beauchamp, W. M. Earthenware of New York Aborigines, p.71-146; Bulletin 23, Report of Entomologist, p.151-295; Bulletin 24, Felt, E. P. Memorial of Life and Entomologic Work of J. A. Lintner, p.301-611; Bulletin 25, Report of Botanist, p.617-88. 5 pl.; General Index, p.689-95.

Contents of Geol. rep. 18 in Mus. rep. 52, v.2: Report of Acting State Geologist and Paleontologist, p.5-7; Kümmel, H. B. The Newark or New Red Sandstone Rocks of Rockland County, p.9-50; Prosser, C. S. Sections of the Formations Along the Northern End of the Helderberg Plateau, p.51-72; Cushing, H. P. Geology of Franklin County, p.73-128; Smyth, C. H. jr & Newland, D. H. Progress in Mapping Crystalline Rocks of Western Adirondack Region, p.129-35; Kemp, J. F., Newland, D. H. & Hill, B. F. Geology of Hamilton, Warren and Washington Counties, p.137-62; Index, p.163-69.

- 53 (for 1899) 1901. v.1, r170+867p. 4pl. (lith.) other pl. (phot.) maps. O. v.2, 234p. 33pl. (lith.) Q.

Contents, v.1: Report of Director, p.r5-170; Report of Geologist, p.r7-154; Additions to Collections, p.r163-70; Bulletin 26, Felt, E. P. Collection, Preservation and Distribution of New York Insects, p.3-34; Bulletin 27, Felt, E. P. Shade Tree Pests in New York State, p.39-60; Bulletin 28, Peck, C. H. Plants of North Elba, p.65-266; Bulletin 29, Miller, G. S. jr. Preliminary List of New York Mammals, p.271-390; Bulletin 30, Orton, Edward. Petroleum and Natural Gas in New York, p.395-526; Bulletin 31, Report of Entomologist, p.531-653; ^aReport of Paleontologist, p.659-816; Report of Botanist, p.821-67. 4pl.; General Index, p.657-61.

v.2: Memoir 3, Clarke, J. M. Oriskany Fauna of Becraft Mountain, p.1-128. 9pl.; Memoir 4, Peck, C. H. Edible Fungi of New York, p.129-234. 24pl.

Contents of Geol. rep. 19 in Mus. rep. 53, v.1: Report of Geologist, p.r7-16; Kemp, J. F. & Hill, B. F. Pre-Cambrian Formations in Parts of Warren, Saratoga, Fulton and Montgomery Counties, p.r17-35; Cushing, H. P. Geology of Rand Hill and Vicinity, Clinton Co., p.r37-82; Smyth, C. H. jr. Geology of the Crystalline Rocks in the Vicinity of the St

^a For contents see Paleontologist's reports, p. 262.

Lawrence River, p.r83-104; Bishop, I. P. Oil and Gas in Southwestern New York, p.r105-34; Nevius, J. N. Roofing Slate Quarries of Washington County, p.r135-50; Nevius, J. N. Emery Mines of Westchester County, p.r151-54.

- 54 (for 1900) 1902. v.1, r261+195+484p. 17pl. (lith.) other pl. (phot.) O. v.2, p.489-1063, 2pl. (lith.) other pl. (phot.) O. v.3, 968p. 37pl. (lith.) other pl. (phot.) O. v.4, 664p. 13pl. (lith.) other pl. (phot.) O.

Contents, v.1: Report of the Director and State Geologist, p.r3-261; Tests of Road Metal, p.r14-22; Cushing, H. P. Recent Geologic Work in Franklin and St Lawrence Counties, p.r23-82; Cushing, H. P. Pre-Cambrian Outlier at Little Falls, Herkimer co., p.r83-95; Finlay, G. I. Preliminary Report of Field Work in the Town of Minerva, Essex co., p.r96-102; Fairchild, H. L. Pleistocene Geology of Western New York, Report of Progress for 1900, p.r103-39; Eckel, E. C. The Quarry Industry in Southeastern New York, p.r141-76; Parsons, A. L. Recent Developments in the Gypsum Industry in New York State, p.r177-83; Accessions to Collections, p.r201-7; Stoller, J. H. Two New Land Isopods, p.r208-13; Scott, G. G. Notes on the Marine Food Fishes of Long Island and a Biologic Reconnaissance of Cold Spring Harbor, p.r214-29; Converse, H. M. Iroquois Silver Brooches, p.r231-54; Index, p.r255-61; Report of State Paleontologist 1900, p.3-124; Report of State Botanist 1900, p.129-99. 13pl.; Bulletin 32, Beauchamp, W. M. Aboriginal Occupation of New York, p.3-187; Bulletin 33, Farr, M. S. Check List of New York Birds, p.193-409; Bulletin 34, Cumings, E. R. Lower Silurian System of Eastern Montgomery County, Prosser, C. S. Notes on the Stratigraphy of the Mohawk Valley and Saratoga County, N. Y. p.415-84.

v.2: Bulletin 35, Ries, Heinrich. Clays of New York, p.489-944; Bulletin 36, Felt, E. P. 16th Report of State Entomologist, p.949-1063.

v.3: Bulletin 37, Felt, E. P. Illustrated Descriptive Catalogue of Injurious and Beneficial Insects of New York State, p.3-52; Bulletin 38, Miller, G. S. jr. Key to the Land Mammals of Northeastern North America, p.59-160; Bulletin 39, Clarke, J. M., Simpson, G. B. & Loomis, F. B. Paleontologic Papers, p.165-231; Bulletin 40, Simpson, G. B. Anatomy and Physiology of *Polygyra Albolabris* and *Limax Maximus*, p.237-314; Bulletin 41, Beauchamp, W. M. Wampum and Shell Articles Used by the New York Indians, p.319-480; Bulletin 42, Ruedemann, Rudolf. Hudson River Beds near Albany and their Taxonomic Equivalents, p.485-596; Bulletin 43, Kellogg, J. L. Clam and Scallop Industries of New York State, p.601-31; Bulletin 44, Ries, Heinrich. Lime and Cement Industries of New York, p.639-968.

v.4: Bulletin 45, Grabau, A. W. Guide to the Geology and Paleontology of Niagara Falls and Vicinity, p.3-284; Bulletin 46, Felt, E. P. Scale Insects of Importance and List of the Species in New York State, p.289-377; Bulletin 47, Needham, J. G. and Betten, Cornelius. Aquatic Insects in the Adirondacks, p.383-612; Bulletin 48, Woodworth, J. B. Pleistocene Geology of Portions of Nassau County and Borough of Queens, p.617-70; General Index, p.673-79.

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Geologist's annual reports for 1881-1900. Rep'ts 1, 3-13, 17-date, O; 2, 14-16, Q. 1881-1902:

The annual reports of the early natural history survey, 1837-41 are out of print.

Reports 1-4, 1881-84 were published only in separate form. Of the 5th report 4 pages were reprinted in the 39th museum report, and a supplement to the 6th report was included in the 40th museum report. The 7th and subsequent reports are included in the 41st and following museum reports, except that certain lithographic plates in the 11th report (for 1891) and 13th report (for 1893) are omitted from the 45th and 47th museum reports.

Separate volumes of the geologist's 12th and 20th reports can be supplied for 50 cents; 14th, 17th and 18th for 75 cents each; 15th and 16th for \$1 each; 19th for 40 cents. Others, except as parts of museum reports, are not available.

In 1898 the paleontologic work of the State was made distinct from the geologic and will hereafter be reported separately.

1 (for 1881) 1884. 15p. 11pl. (lith.) O.

Contents: Report of Geologist, p.3-7; Classification of the Lamellibranchiata, p.8-15. 11pl.

2 (for 1882) 1883. 17p. illus. 61pl. (lith.) Q.

Contents: Report of Geologist, p.1-3; Hall, James. Discussion upon Genus Fenestella, p.5-16; 33 plates illustrating corals and Bryozoans of upper and lower Helderberg groups; Brachiopoda, plates and explanations, pl.34-61.

3 (for 1883) 1884. 61p. O.

Contents: Report of Geologist, p.1-3; Hall, James. Bryozoans of the Hamilton Group, p.5-61.

4 (for 1884) 1885. 47p. illus. 2pl. (lith.) maps. O.

Contents: Report of Geologist, p.1-8; Geological Map of the State, p.4-8; Clarke, J. M. Geological Succession in Ontario County, N. Y., p.9-22; Hall, C. E. Laurentian Magnetic Iron Ore Deposits of Northern New York, p.23-34; Hall, James, Mode of Growth and Relations of the Fenestellidae, p.35-45. 2pl.; wood-cuts of palaeozoic pectenoid shells, p.47.

5 (for 1885) 1886. 47p. illus. 28pl. (lith.) maps. O.

Contents: Report of Geologist, p.3-5; Palaeontology of New York, v.5, pt2, Lamellibranchiata, p.5-7; Beecher, C. E. & Hall, C. E. Field Notes on

the Geology of the Mohawk Valley, p.8-10; Oneonta Sandstone in the Vicinity of Oxford, Chenango County, N. Y., p.11; Bishop, I. P. Salt Wells of Western New York, p.12-47; 14 plates to accompany Palaeontology of New York, v.5, pt2; 14 plates to accompany Palaeontology of New York, v.6.

6 (for 1886) 1887. 70p. 8pl. (lith.) maps. O.

Contents: Report of Geologist, p.3-9; Williams, S. G. Lower Helderberg Rocks of Cayuga Lake, p.10-12; Williams, S. G. Tully Limestone, its Distribution and its Known Fossils p.13-29; Clarke, J. M. Annelid Teeth from Lower Portion of Hamilton Group and from Naples Shales of Ontario County, N. Y., p.30-33. 1pl.; Clarke, J. M. Supposed Mastodon Bones Found at Attica, N. Y., p.34-35; Hall, James. Dictyospongiidae in New York, p.36-38; Hall, James. Note on the Discovery of a Skeleton of an Elk in Farmington, Ontario co., p.39; Hall, James. Descriptions of Fenestellidae of the Hamilton Group, p.41-70. 7pl.

7 (for 1887) no separate edition. *see* Mus. rep. 41 for contents.

8 (for 1888) 1889. 150p. illus. O.

Contents: Report of Geologist, p.5-56; Palaeontology of New York v.7, p. 5-23; List of Type Specimens of Devonian Crustacea described in Palaeontology of New York, v.7 in Possession of Museum, p.24-27; Palaeontology of New York v.8, p.27-42; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p.43-46; List of Microscopic Sections of Brachiopoda, p.46-47; List of Preparations for v.8, p.47-48; List of Plates of Brachiopoda, p.48-49; Schuchert, Charles. List of the Fossils in the Oriskany Sandstone of Maryland, New York and Ontario, p.50-54; Clarke, J. M. Genus Bronteus in the Chemung Rocks, p.57-59; Clarke, J. M. List of Species Constituting the Known Fauna and Flora of the Marcellus Epoch in New York State, p.60-61; Clarke, J. M. Hercynian Question, p.62-91; Bishop, I. P. Locality of Flint Implements in Wyoming County, N. Y., p.92-94; Catalogue of Specimens Representative of the Taconic System, p.95-98; List of Plates, Drawings, Names of Draughtsmen and Lithographers for Palaeontology of New York, v.5, pt1 and 2, v.7 and 8, p.99-103; Record of Locality Numbers, p.104-50.

9 (for 1889) 1890. 72p. O.

Contents: Report of Geologist, p.7-25; Palaeontology of New York, v.8, p.7-16; Geological Map of the State of New York, p.16-25; Hall, James. Fossil Dictyospongiidae of the Devonian and Carboniferous Formations, p.25-27; Schuchert, Charles. On Syringothyris, Winchell and its American Species, p.28-37; Schuchert, Charles. List of Species of the American Palaeozoic Orthis, Spirifera, Spiriferina and Syringothyris, p.38-55; Hall, James. New Forms of Dictyospongiidae from the Rocks of the Chemung Group, p.56-60; Record of Locality Numbers, p.61-72.

10 (for 1890) 1891. 155p. 7pl. (lith.) O.

Contents: Report of Geologist, p.7-25; Palaeontology of New York v.8, p.7-14; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p.15-18; Original Drawings for the Palaeontology of New York v.8, p.19; List of Figures for v.8, p.19-21; List of Microscopic Sections of Brachiopoda, p.22-23; Clarke, J. M. Report of Assistant Palaeontologist, p.29-31;

List of Accessions to the Department of Palaeontology, p.32-34; Hall, James. Descriptions of Bryozoa, p.35-57; Clarke, J. M. Genus *Acidaspis*, p.61-71. 3 pl.; Clarke, J. M. *Coronura aspectans*, p.79-83. 1 pl.; Clarke, J. M. *Terataspis grandis*, Hall, p.87-90. 1pl.; Hall, James. Preliminary Notice of *Newberria*, p.91-99. 2 pl.; Merrill, F. J. H. Quaternary Geology of the Hudson River Valley, p.103-9; Ries, Heinrich. Quaternary Deposits of the Hudson River Valley between Croton and Albany, with Notes on Brick Clays, and the Manufacture of Brick, p.110-55.

11 (for 1891) 1892. 300p. illus. 22pl. (lith.) map. O.

Contents: Report of Geologist, p.7-29; Livonia Salt Shaft, p.10-12; Palaeontology of New York, v.8, p.12-13; List of Preparations of Spirals, Loops and Hinge-plates for v.8, pt2, p.14-15; List of Genera of the Palaeozoic Brachiopoda, p.15-21; Additions to the Palaeontological collections, p.22-28; Clarke, J. M. Catalogue of the Collection of Geological and Palaeontological Specimens donated by the Albany Institute, p.33-53; Clarke, J. M. Report of Assistant Palaeontologist, p.54-55; Clarke, J. M. List of the Original and Illustrated Specimens in the Palaeontological Collections, pt1, Crustacea p.57-121; Record of Localities of Extra Limal Geological and Palaeontological Collections, p.122-23; Clarke, J. M. On *Cordania* a Proposed New Genus of Trilobites, p.124-27; Publications of Geologist, p.128-31; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, p.133-300, 22pl.

12 (for 1892) 1893. 142p. O.

Contents: Report of Geologist, p.7-41; Palaeontology of New York, v.8 pt1, p.14-22; Palaeontology of New York, v.8, pt2, p.23-25; Geological Map of the State, p.25-38; Geological Surveys and Maps of Parts of the State of New York, p.38-39; Clarke, J. M. Report of Assistant Palaeontologist, p.43-49; Additions to the Geological and Palaeontological Collections during 1891-92, p.50-53; Clarke, J. M. List of the Original and Illustrated Specimens in the Palaeontological Collections, pt2, Annelida and Cephalopoda p.55-104; Emerson, B. K. Two Boulders of a very Basic Eruptive Rock from the West Shore of Canandaigua Lake, p.105-9; Prosser, C. S. Devonian Section of Central New York along the Unadilla River, p.110-42.

13 (for 1893) 1894. v.1, 597p. illus. 4pl. (lith.) other pl. (phot.) maps. O. v.2, p.598-943. illus. pl.23-54 (lith.) maps. O.

Contents, v.1: Report of Geologist and Palaeontologist, p.7-8; Hall, James. Livonia Salt Shaft, its History and Geological Relations, p.11-20; Luther, D. D. Geology of the Livonia Salt Shaft, p.21-130; Clarke, J. M. Succession of the Fossil Faunas in the Section of the Livonia Salt Shaft, p.131-58; Clarke, J. M. New or Rare Species of Fossils from the Horizons of the Livonia Salt Shaft, p.159-89. 4pl.; Geological Survey of the State of New York, Reports, p.193-557; Darton, N. H. Relations of the Helderberg Limestones and Associated Formations in Eastern New York, p.197-228; Darton, N. H. Geology of Albany County, p.229-61; Nason, F. L. Economic Geology of Albany County, p.263-87; Darton, N. H. Geology of Ulster County, p.289-372; Nason, F. L. Economic Geology of Ulster County, p.373-406; Darton,

N. H. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties, p.407-29; Kemp, J. F. Geology of Essex County, p.431-72; Cushing, H. P. Geology of Clinton County, p.473-89; Smyth, C. H. jr. Geology of Four Townships in St Lawrence and Jefferson Counties, N. Y., p.491-515; Randall, F. A. Geology of Cattaraugus and Chautauqua Counties, p.517-27; Clarke, J. M. Field Work in Chenango County, p.529-57; Clarke, J. M. *comp.* List of Publications relating to the Geology and Palaeontology of the State of N. Y. 1876-93, p.559-97;

v.2, *Dep't of palaeontology*: Palaeontology of New York, v.8, pt2, p.603-8; Clarke, J. M. Evolution of the Genera of the Palaeozoic Brachiopoda, p.609-46; Descriptions of New Species figured in v.8, pt2 of Palaeontology of New York, p.647-57; Sherzer, W. H. Platynemic Man in New York, p.659-83; Simpson, G. B. Genera of Fenestellidae, p.685-727; Simpson, G. B. Glossary and Explanations of Specific Names of Bryozoa and Corals, p.729-47; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, pt2, p.749-943; pl.23-54.

- 14 (for 1894) 1895. 669p. illus. 44pl. (lith.) other pl. (phot.) maps. Q.

Contents: Staff of geologist, p.7; Report of Geologist and Palaeontologist, p.9-29; Preface to Palaeontology of New York, v.8, pt2, p.21-28; Geological Survey of the State of New York, Reports, p.31-125; Darton, N. H. Faulted Region of Herkimer, Fulton, Montgomery and Saratoga Counties, p.31-53; Beecher, C. E. & Hall, C. E. Field Notes on the Geology of the Mohawk Valley, with a map, p.54-56; Lincoln, D. F. Geology of Seneca County, p.57-125; Bernard, Felix. Principles of Palaeontology, ed. by J. M. Clarke, p.127-215; Ruedemann, Rudolf. Development and Mode of Growth of Diplograptus, p.217-49. 5 pl.; Girty, G. H. Revision of the Sponges and Coelenterates of the Lower Helderberg Group of New York, p.259-309. 7 pl.; Hall, James & Clarke, J. M. New Species of Brachiopoda described in Palaeontology of New York, v.8, pt1 and 2, p.323-72. 14pl; Simpson, G. B. Handbook of the Genera of the North American Palaeozoic Bryozoa, p.403-669. 30pl.

- 15 (for 1895) v.1, 1897, v.2, 1898. v.1, 738p. illus. pl. (phot.) maps. F⁴. v.2, p.739-984. illus. 47pl. (lith.) F⁴.

Contents: Report of Geologist and Palaeontologist, p.7-26; Geological Survey of the State of New York, Reports, p.27-698; Clarke, J. M. Stratigraphic and Faunal Relations of the Oneonta Sandstones and Shales, the Ithaca and the Portage Groups in Central New York, p.27-81; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt1, p.83-222; Luther, D. D. Stratigraphic Position of the Portage Sandstones in the Naples Valley and the Adjoining Region, p.223-36; Luther, D. D. Economic Geology of Onondaga County, p.237-303; Bishop, I. P. Geology of Erie County, p.305-92; Ries, Heinrich. Geology of Orange County, p.393-475; Smyth, C. H. jr. Crystalline Rocks of St Lawrence County, p.477-97; Cushing, H. P. Geology of Clinton County, p.499-573; Kemp, J. F. Geology of Essex County, p.575-614; Prosser, C. S. & Cumings, E. R. Sections and Thickness of

the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley, p.615-59; Smyth, C. H. jr. Talc Industry of St Lawrence County, p.661-71; Ries, Heinrich. Physical Tests of the Devonian Shales, p.673-98; Ruedemann, Rudolf. Discovery of a Sessile Conularia, p.699-728. 4 pl.; Clarke, J. M. Crustaceans from the Chemung Group, p.729-38.

v.2: Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae, pt1, p.741-984. 47pl.

16 (for 1896) 1899. 8+448p. illus. 32pl. (lith.) other pl. (phot.) maps. F⁴.

Contents: Report of Geologist and Palaeontologist, pref. p.7-8; Geological Survey of the State of New York, Reports, p.1-27, 171-226; Cushing, H. P. Boundary Between the Potsdam and Precambrian Rocks North of the Adirondacks, p.1-27; Clarke, J. M. Naples Fauna in Western N. Y., p.29-161. 9 pl.; Clarke, J. M. Early Stages of Certain Goniatites, p.163-69; Luther, D. D. Brine Springs and Salt Wells of New York and the Geology of the Salt District, p.171-226; Grabau, A. W. Faunas of the Hamilton Group of Eighteen-mile Creek and Vicinity in Western New York, p.227-339; Memoir 2, pt2, Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae, pt2, p.341-448. pl.48-70.

17 (for 1897) 1899. 564p. illus. pl. (phot.) maps. O.

Contents: Report of Geologist and Palaeontologist, p.5-7; Bishop, I. P. Petroleum and Natural Gas in Western New York, p.9-63; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt2, p.65-315; Eastman, C. R. Upper Devonian Fish Fauna of Delaware County, N. Y., p.317-27; Prosser, C. S. & Rowe, R. B. Stratigraphic Geology of the Eastern Helderbergs, p.329-54; Ries, Heinrich. Limestones of New York, p.355-467; Smyth, C. H. jr. Crystalline Rocks of the Western Adirondack Region, p.469-97; Kemp, J. F. & Newland, D. H. Geology of Washington, Warren and Parts of Essex and Hamilton Counties, p.499-553; Index, p.555-64.

18 (for 1898) 1899. 169p. illus. pl. (phot.) maps. O.

Contents: Report of Acting State Geologist and Paleontologist, p.5-7; Kümmel, H. B. The Newark or New Red Sandstone Rocks of Rockland County, p.9-50; Prosser, C. S. Sections of the Formations along the Northern End of the Helderberg Plateau, p.51-72; Cushing, H. P. Geology of Franklin County, p.73-128; Smyth, C. H. jr & Newland, D. H. Progress in Mapping Crystalline Rocks of Western Adirondack Region, p.129-35; Kemp, J. F., Newland, D. H. & Hill, B. F. Geology of Hamilton, Warren and Washington Counties, p.137-62; Index, p.163-69.

19 (for 1899) 1901. 158p. illus. pl. (phot.) maps. O.

Contents: Report of Geologist, p.7-16; Kemp, J. F. & Hill, B. F. Precambrian Formations in Parts of Warren, Saratoga, Fulton and Montgomery Counties, p.17-35; Cushing, H. P. Geology of Rand Hill and

Vicinity, Clinton Co., p.r37-82; Smyth, C. H. jr. Geology of the Crystal-line Rocks in the Vicinity of the St Lawrence River, p.r83-104; Bishop, I. P. Oil and Gas in Southwestern New York, p.r105-34; Nevius, J. N. Roofing Slate Quarries of Washington County, p.r135-50; Nevius, J. N. Emery Mines of Westchester County, p.r151-54; Index, p.r155-58.

20 (for 1900) 1902. 189p. illus. pl. (phot.) maps. O.

Contents: Report of Geologist, p.r7-22; Tests of Road Metal, p.r14-22; Cushing, H. P. Recent Geologic Work in Franklin and St Lawrence Counties, p.r23-82; Cushing, H. P. Pre-Cambrian Outlier at Little Falls, Herkimer Co., p.r83-95; Finlay, G. I. Preliminary Report of Field Work in the Town of Minerva, Essex Co., p.r96-102; Fairchild, H. L. Pleistocene Geology of Western New York, Report of Progress for 1900, p.r103-39; Eckel, E. C. The Quarry Industry in Southeastern New York, p.r141-76; Parsons, A. L. Recent Developments in the Gypsum Industry in New York State, p.r177-83; Index, p.r185-89.

Paleontologist's annual reports for 1899-1901. 1900-1902.

See fourth note under Geologist's annual reports.

Bound also with museum reports of which they form a part. Reports for 1899 and 1900 may be had for 20 cents each. Beginning with 1901 these reports will be issued as bulletins.

(for 1899) 1900. p.659-816. O.

Contents: Report of Paleontologist, p.661-78; Accessions, p.679-83; General Record of Localities of American Paleozoic Fossils belonging to State Museum, p.683-813; Index, p.815-16.

(for 1900) 1901. 124p. 4pl. (lith.). O.

Contents: Report of Paleontologist, p.5-25; Accessions, p.25-31; New Entries of Localities of Fossils, p.31-81; Clarke, J. M. Notes on Paleozoic Crustaceans, p.83-119. 4 pl.; Index, p.121-24.

(for 1901) 1902. p.419-693. 9pl. (lith.). O.

Contents: Report of Paleontologist, p.419-56; George Bancroft Simpson, p.457-60; Accessions, p.461-68; New Entries of Localities of Fossils, p.468-516; Clarke, J. M.; Ruedemann, R. & Luther, D. D. Contact Lines of Upper Siluric Formations on the Brockport and Medina Quadrangles, p.517-23; Clarke, J. M. Paleontologic Results of the Areal Survey of the Olean Quadrangle, p.524-28; van Ingen, Gilbert. Potsdam Sandstone of the Lake Champlain Basin, p.529-45; Ruedemann, Rudolf. Graptolite Facies of the Beekmantown Formation in Rensselaer County, N. Y., p.546-75; Ruedemann, Rudolf. Growth and Development of *Goniograptus thureaui* McCoy, p.576-92; White, David. Fossil Alga from the Chemung of New York, p.593-605; Clarke, J. M. A New Genus of Paleozoic Brachiopods, *Eunoa*, p.606-15; Luther, D. D. Stratigraphic Value of the Portage Sandstones, p.616-31; Ulrich, E. O. and Schuchert, Charles. Paleozoic Seas and Barriers in Eastern North America, p.633-63; Clarke, J. M. Indigene and Alien Faunas of the New York Devonian, p.664-72; Explanation of Plates, p.673-84; Index, p.685-93.

^aBotanist's annual reports for 1867-1901. 1869-1902.

Bound also with museum reports 21-55 of which they form a part; the first botanist's report appeared in the 21st museum report and is numbered 21. Reports 21-24, 29, 31-41 were not published separately.

Separate reports 25-28, 30, 42-50 and 52 (Museum bulletin 25) are out of print. Report 51 may be had for 40 cents; 53 for 20 cents; 54 for 50 cents; 55 (Museum bulletin 54) for 40 cents. Beginning with 1901, these reports will be issued as bulletins.

Descriptions and illustrations of edible, poisonous and unwholesome fungi of New York have been published in volumes 1 and 3 of the 48th museum report and in volume 1 of the 49th, 51st, 52d, 54th and 55th reports. The descriptions and illustrations of edible and unwholesome species contained in the 49th, 51st and 52d reports have been revised and rearranged, and combined with others more recently prepared and constitute *Museum memoir 4*.

^bContents: Order Agaricini, 23, p.66-127; Genus Boletus, 23, p.127-33; Genus Clavaria, 24, p.104-5; Genus Aecidium, 24, p.105-8; Gelatinosporium *gen. nov.*, 25, p.84-106; Synopsis of New York Puccinia, 25, p.110-23; Report on Fungi, 27, p.74-80; Parasitic Fungi of New York and their Supporting Plants, 29, p.71-82; New York Species of Helvella, 31, p.59-60; New York Species of Phallus, 32, p.37-43; Glomerularia *gen. nov.*, 32, p.43-52; New York Species of Lycoperdon, 32, p.58-72; New York species of Amanita, 33, p.38-49; Report on Fungi, 34, p.24-36; New York Carices, 35, p.147-49; New York Species of Lepiota, 35, p.150-64; New York Species of Psalliota, 36, p.41-49; New York Species of Lactarius, 38, p.111-33; New York Species of Pluteus, 38, p.133-38; New York Species of Pleurotus, Claudopus and Crepidotus, 39, p.58-73; Fungi Destructive to Wood, 41, p.86-94; New York Species of Clitopilus, 42, p.135-42 (*sep. ed.* p.39-46); New York Species of Armillaria, 43, p.86-91 (*sep. ed.* p.40-45); Fungi Destructive to Wood, 43, p.91-93 (*sep. ed.* p.45-47); New York Species of Tricholoma, 44, p.150-76 (*sep. ed.* p.38-64); Fungi of Maryland, 44, p.176-87 (*sep. ed.* p.64-75); New York Species of Omphalia, 45, p.92-102 (*sep. ed.* p.32-42); New York Species of Pluteolus, 46, p.138-41 (*sep. ed.* p.58-61); New York Species of Galera, 46, p.141-49 (*sep. ed.* p.61-69); List of New York Fungi represented at the World's Columbian Exposition at Chicago, 47, p.169-72 (*sep. ed.* p.43-46); Preliminary List of Hymenomycetous Fungi inhabiting our Principal Coniferous Forest Trees, 47, p.172-74 (*sep. ed.* p.46-48); New York Species of Carex, 48, 1:118-202 (*sep. ed.* p.20-104); Edible and Poisonous Fungi of New York, 48, 1:203-316, 44pl. in 48. v.3 (*sep. ed.* p.105-241, 44pl.); New York Species of Collybia, 49, 1:46-69 (*sep. ed.* p.32-55); Edible Fungi, 49, 1:70-78, 5pl. (*sep. ed.* p.56-62); Unwholesome Fungi, 49, 1:79, 1pl. (*sep. ed.* p.65); New York Species of Flammula, 50, 1:133-42; Edible Fungi, 51, 1:300-12, 7pl.; List of Changed Names, 52, 1:628-42; Plants of the Summit of Mt Marcy, 52, 1:657-73; Edible Fungi, 52, 1:673-82, 5pl.; Plants of Bonaparte Swamp, Lewis County, 53, 1:858-61; Edible Fungi, 54, 1:173-86 (1st paging), 8pl.; Edible Fungi, 55, 1:966-82, 5pl.

^aPapers entitled *Facts and Observations touching the Flora of the State of New York* were published in Mus. rep. 18, 19 and 20, the last being by C. H. Peck, the present state botanist.

^bNot including Plants added; Contributors and their contributions; Species not before reported; Remarks and observations, which appear in each report.

Entomologist's annual reports on the injurious and other insects of the State of New York for 1882-1901. 1882-1902.

Reports 3-17 bound also with museum reports 40-46, 48-55 of which they form a part. Beginning with 1898 these reports have been issued as bulletins.

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Museum bulletins.^a O. 1887-1902. *To advance subscribers, \$2 a year, or 50c a year for those of any one division: (1) geology, including economic geology, general zoology, archeology and mineralogy, (2) paleontology, (3) botany, (4) entomology.*

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Bulletins	Report	Bulletins	Report	Bulletins	Report
12-15	48, v. 1	20-25	52, v. 1	35-36	54, v. 2
16-17	50 "	26-31	53 "	37-44	" v. 3
18-19	51 "	32-34	54 "	45-48	" v. 4

The letter and figure in parenthesis after the bulletin number indicate the division and the division and series number. G=geology, EG=economic geology, Z=general zoology, A=archeology, M=mineralogy, P=paleontology, B=botany, E=entomology, Misc=miscellaneous.

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- (EG1) Smock, J. C. Building Stone in the State of New York. 152p. Mar. 1888. *Out of print.*
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^a The covers of bulletins bound in paper are counted in giving the number of pages.

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Supplement to 14th report of the state entomologist.

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 Wood, Elvira. Marcellus Limestones of Lancaster, Erie Co. N. Y.
 Clarke, J. M. New Agelacrinites.
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- 64 (E17) Felt, E. P. 18th Report of the State Entomologist 1902. 110p. 6pl. May 1903. 20c.
- 65 (P8) Clarke, J. M. Catalogue of Type Specimens of Paleozoic Fossils in the New York State Museum. 848p. May 1903. \$1.20, cloth.
- 66 (Misc2) Ellis, Mary. Index to Publications of the New York State Natural History Survey and New York State Museum. 1837-1902. 418p. June 1903. 75c, cloth.
- 67 (B6) Peck, C. H. Report of the State Botanist 1902. 196p. 5pl. May 1903. 50c.
- 68 (E18) Needham, J. G. and others. Aquatic Insects in New York State. *In press.*
- 69 (P9) Clarke, J. M. Report of the State Paleontologist 1902. *In press.*
 Felt, E. P. & Joutel, L. H. Monograph of the Genus *Saperda*. *In press.*
 Kellogg, James L. Feeding Habits and Growth of *Venus mercenaria*. *In press.*
- Museum memoirs. Q. 1889-1902.
- 1 Beecher, C. E. & Clarke, J. M. Development of Some Silurian Brachiopoda. 96p. 8pl. (lith.) Oct. 1889. *Out of print.*

2 Hall, James & Clarke, J. M. Palaeozoic Reticulate Sponges, constituting the Family Dictyospongidae. 350p. il. 70pl. (lith.). 1898. \$1, cloth.

3 Clarke, J. M. The Oriskany Fauna of Becraft Mountain, Columbia Co. N. Y. 128p. 9pl. (lith.) Oct. 1900. 80c.

4 Peck, C. H. New York Edible Fungi, 1895-99. 106p. 25pl. (lith.) Nov. 1900. 75c.

This includes revised descriptions and illustrations of fungi reported in the 49th, 51st and 52d reports of the state botanist.

5 Clarke, J. M. & Ruedemann, Rudolf. The Guelph Formation and Fauna of Western New York. *In press*.

6 Clarke, J. M. Naples Fauna in Western New York. *In press*.
Felt, E. P. Insects Affecting Park and Woodland Trees. *In press*.

Natural history of New York. 30v. il. pl. (lith.) maps. Q. 1842-94.

The annual reports of the early natural history survey, 1837-41 are out of print. They were originally published as Assembly doc. 1837, no. 161; 1838, no. 200; 1839, no. 275; 1840, no. 50; 1841, no. 150.

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8 plates additional to those printed as part of the text.

Division 4 Geology. Mather, W. W.; Emmons, Ebenezer; Vanuxem, Lardner & Hall, James. Geology of New York. 4v. il. pl. sq. Q. 1842-43. *Out of print*.

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^aUniversity handbooks. 7½x12½ cm. 1893-1902. In quantities, 1 cent for each 16 pages or less. Single copies postpaid as below.

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Maps. Merrill, F. J. H. Economic and Geologic Map of the State of New York; issued as part of Museum bulletin 15 and the 48th museum report, v. 1. 59x67 cm. 1894. Scale 14 miles to 1 inch. *Out of print.*
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——— Geologic Map of New York. 1901. Scale 5 miles to 1 inch. *In atlas form* \$3; *mounted on rollers* \$5. *Lower Hudson sheet* 60c.

The lower Hudson sheet, geologically colored, comprises Rockland, Orange, Dutchess, Putnam, Westchester, New York, Richmond, Kings, Queens and Nassau counties, and parts of Sullivan, Ulster and Suffolk counties; also northeastern New Jersey and part of western Connecticut.

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Observations on the Genera *Platyostoma* and *Strophostylus*, p.20-22.
Observations on the Genus *Nucleospira*, p.23-34.
Observations on the Genus *Eatonia*, p.34-37.
Observations on the Genus *Rensselaeria*, p.38-41.
Observations on the Genus *Camarium*, p.42-44.
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 d Descriptions of Bryozoa and Corals from the Lower Helderberg Group of New York, p.304.
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Dr Hall was appointed paleontologist by Gov. Bouck in 1843, while his title as geologist originated from the commission of 1837 on the geological survey. For his other reports, see Annual Report of the Fourth Geological District 1838-41; final report, 1843, and his reports as curator and director of museum, 1867-93.
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- Hollick, Arthur.** Field Work during 1901 in the Cretaceous Beds of Long Island. Geol. rep. 21 (for 1901). *In press*.
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Map of Long Island, 25.5 x 11.5cm.
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- Kemp, James Furman.** Preliminary Report on the Geology of Essex County. Geol. rep. 13 (for 1893) 1894. p.431-72. maps (uncolored). *Same*, Mus. rep. 47 (for 1893) 1894. p.625-66. maps (uncolored).
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Contains a bibliography.
- *continued.* Geol. rep. 15 (for 1895) 1897. p.22-23, 575-614. 1pl. (phot.) maps (uncolored). *Same*, Mus. rep. 49 (for 1895) 1898. 2:22-23, 575-614. 1pl. (phot.) maps (uncolored).
Also published separately.
Map of Essex county (uncolored).
- Geology of Moriah and Westport Townships, Essex County, N. Y. Mus. bul. 14. 1895. p.323-55. 7pl. (phot.) maps (uncolored). *Same*, Mus. rep. 48 (for 1894) 1895. 1:323-55 (2d paging). 7pl. (phot.) maps (uncolored).
Map of the Mineville district, Essex co., 30 x 33cm.
Geologic map of Moriah and Westport townships, Essex co., 33 x 44cm.
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^aFor biography and bibliography of Hough, see Regents rep. 99, p.300-47.

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Map of Onondaga county (uncolored) 34 x 34cm.
Geologic map of Onondaga county (colored) 34 x 38cm.
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Map of New York showing salt wells and mines and gypsum quarries, 38 x 55cm.
Map of western salt field of New York, 52.5 x 32.5cm.
Chart of well sections.
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- Mineral Resources of New York State. Mus. bul. 15. 1895. p.359-595. maps. *Same*, Mus. rep. 48 (for 1894) 1895. 1:359-595 (2d paging). maps. Economic and geologic map of New York State, 22 x 35cm. Geologic map of a part of southeastern New York, 53 x 56cm.
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- Report on Articles given to the Indian Collection. Mus. rep. 2 (for 1848) 1849. p.84-91; 3 *rev. ed.* (for 1849) 1850. p.63-95. illus. 18pl.
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- Nason, Frank L.** Some New York Minerals and their Localities. Mus. bul. 4. 1888. 19p. 1pl. (phot.)
- Economic Geology of Albany County. Geol. rep. 13 (for 1893) 1894. p.263-87. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.457-81. pl. (phot.) Also published separately.
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- Whitlock, Herbert P.** Guide to the Mineralogic Collections of the New York State Museum. Mus. bul. 58. 1902. 147p. illus. 39pl. (phot.) 11 models.
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- **Tully Limestone, its Distribution and its Known Fossils.** Geol. rep. 6 (for 1886) 1887. p.13-29. map.
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- Woodworth, Jay Backus.** Pleistocene Geology of Portions of Nassau County and Borough of Queens. Mus. bul. 48. 1901. p.617-70. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 4:617-70, pl. (phot.) maps.
Sketch map of a part of Long Island, 22.5 x 18.5cm.
Map of the Pleistocene geology of the Oyster Bay and Hempstead quadrangles on Long Island, 71 x 35cm.
- **The Northumberland Volcanic Plug.** Geol. rep. 21 (for 1901). *In press*.
- **On the Sedentary Impression of the Animal whose Trail is known as Climactichnites.** Pal. rep. (for 1902). *In press*.
- Wright, Berlin H.** Notes on the Geology of Yates County, N. Y. Mus. rep. 35 (for 1881) 1884. p.195-206. pl.15-16. map 24x21cm. (pl.16A).
- Wright, S. Hart.** The Aboriginal Work on Bluff Point, Yates County, N. Y. Mus. rep. 35 (for 1881) 1884. p.193-94. pl.14.
- Young, D. B.** List of Coleoptera taken at Newport, Herkimer co., N. Y. Ent. rep. 18 (for 1902). Mus. bul. 64. p.153-61. *In press*.

SUBJECT INDEX

This is mainly an index to geologic, mineralogic and paleontologic publications, including papers in administrative reports of the museum. For index to Entomologist's reports 1-13, *see* Mus. bul. 24. For index to Botanist's reports 22-38, *see* Mus. rep. 41, p.94-122; reports 39-48, *see* Mus. rep. 50, 1:143-59.

Descriptions of rock formations are indexed; also subjects relating to economic geology, names of minerals, names of classes of animals and fossils, ordinal and English names of insects and generic names of plants. A special index to genera and species of fossils follows this.

Geologic formation names are indexed under terms used in the text followed by synonyms in curves, with *See also* references to synonyms and related formations at the end of entries on a subject. The name of the geologist first using the term is indicated by a footnote.

As a rule geographic divisions smaller than counties are not included in the index; there are, however, a few exceptions.

Unless otherwise specified, pl. refers to lithographic plates only.

For other explanatory matter, and list of abbreviations, *see* p.240.

Aborigines. Cheney. Illustrations of the Ancient Monuments in Western New York. Mus. rep. 13 (for 1859) 1860. p.37-52. 24pl. map.

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See also Indians.

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Achnite, *see* Acmite.

Acidulous springs, *see* Carbonated springs.

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Additions to museum collections, *see* Batrachia; Birds; Botanic collection; Crustacea; Economic geology; Entomologic collection; Fishes; Geologic collection; Historical and antiquarian collection; Library; Mammals; Mineralogic collection; Mollusca; Paleontologic collection; Reptiles; Zoologic collection.

Adirondack pass, *see* Indian pass.

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- First report describes reconnaissance of east and west portions of Adirondacks; second report chiefly filled with details of St Lawrence and Essex counties, also many details about iron mines, and an account of his ascent of Mt Marcy; third report describes Hamilton, Clinton and Warren counties; fourth report takes up the iron ores at length, specially those at Lake Henderson; fifth report describes Hamilton, Essex and Franklin counties, and iron ores of Clinton and Franklin.
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Preliminary geologic map of Albany county, 78x74.5cm.

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- Stratigraphic map showing the subdivisions of the Hudson river beds in parts of Albany and Rensselaer counties, 51.5x24.5cm.
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- For dates of reports, *see* List of publications, p.264.
- Arachnida (paleozoic)** *see* Tracheata.
- Aragonite.** Beck. Arragonite. Min. N. Y. 1842. p.235-37.
- Merrill. Aragonite. Mus. bul. 19. 1898. p.120. *Same*, Mus. rep. 51 (for 1897) 1899. 1:120.
- Whitlock. Aragonite. Mus. bul. 58. 1902. p.83-84.
- Archæan.** Merrill. Archæan; Typical Localities. Mus. bul. 19. 1898. p.138-41. *Same*, Mus. rep. 51 (for 1897) 1899. 1:138-41.
- See also* Crystalline rocks.
- Archeology,** *see* Aborigines; Historical and antiquarian collection; Indians; Platycnemic man.
- Arfvedsonite.** Beck. Arfwedsonite. Min. N. Y. 1842. p.309.
- Argentite.** Beck. Vitreous Silver. Min. N. Y. 1842. p.443.
- Whitlock. Argentite. Mus. bul. 58. 1902. p.53.
- Argillaceous iron ores,** *see* Clinton ores.
- Argillite,** *see* Transition argillite.
- Arickarees.** Morgan. Stone and Bone Implements of the Arickarees. Mus. rep. 21 (for 1867) 1871. p.25-46. 6pl.
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- Army worm.** Lintner. Army worm. Ent. rep. 12 (for 1896) 1897. p.190-214. *Same*, Mus. rep. 50 (for 1896) 1898. 1:190-214 (1st paging).
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- Arsenic.** Beck. Arsenic. Min. rep. (for 1838) 1839. p.53-54. Min. N. Y. 1842. p.56, 439-40.
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- Arsenical poisons.** Felt. Arsenical compounds. Ent. rep. 14 (for 1898) 1898. p.224-26 (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:224-26.
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- Mather. Arsenical Ores of Putnam County. Geol. rep. 1st dist. (for 1838) 1839. p.105-6.

Arsenopyrite (*continued*)

Mather. Orpiment and Arseniate of Iron. Geol. N. Y. pt1. 1843. p.119.

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- Babingtonite.** Beck. Babingtonite. Min. N. Y. 1842. p.407-8. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.149.
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- Bacillaria.** Mather. Bacillaria. Geol. N. Y. pt1. 1843. p.51-77, 238-45.
- Bag worm.** Felt. Bag Worm. Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.359-63.
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- Bald mountain limestone,** *see* Black river limestone.
- Ballston Springs.** Mather. Ballston Springs. Geol. N. Y. pt1. 1843. p.98-101.
- Balsam bark borer.** Felt. Balsam Bark Borer. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Balsam trees,** *see* Forest trees.
- Barite.** Beck. Heavy Spar. Min. N. Y. 1842. p.204-9.
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- Barium carbonate,** *see* Witherite.
- Bark borers.** Felt. Bark Borers. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Barnegate limestone.** *a*Mather. Barnegat Limestone. Geol. rep. 1st dist. (for 1837) 1838. p.168.
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See also Newburg limestone.
- Barystrontianite.** Beck. Barystrontianite. Min. N. Y. 1842. p.213-14.
- Baryta.** Beck. Baryta. Min. rep. (for 1838) 1839. p.17-18. Min. N. Y. 1842. p.204-9.
- Basalt.** Emmons. Basalt. Ag. N. Y. 1846. 1:42.
- Base of the Trenton limestone,** *see* Black river limestone.
- Basic steel.** Ries. Manufacture. Geol. rep. 17 (for 1897) 1899. p.374.
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- Bastite.** Beck. Schiller Spar. Min. rep. (for 1839) 1840. p.109. Min. N. Y. 1842. p.311-12.
- Batrachia.** Additions to Collections. Mus. rep. 2, p.23; 3 *rev. ed.* p.28; 4, p.24; 5, p.21, 24; 6, p.23; 7, p.18, 25; 9, p.16-18; 17, p.14; 46, p.21-22; 53, 1:r169.
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- Lansing. Frogs and their Contributions to Science. Alb. Inst. Trans. 1870. 6:120-35.
- List of Deficiencies in the Amphibia. Mus. rep. 17 (for 1863) 1864. p.14.
- Paulmier. Lizards, Tortoises and Batrachians of New York. Mus. bul. 51. 1902. p.389-409.
- Bauxite.** Whitlock. Bauxite. Mus. bul. 58. 1902. p.78.
- Bean-weevil.** Lintner. Bean-weevil. Ent. rep. 7 (for 1890) 1891. p.255-79.
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- a* Darton. Becraft Limestone. Geol. rep. 13 (for 1893) 1894. p.212-13. *Same*, Mus. rep. 47 (for 1893) 1894. p.406-7.
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- Darton. Becraft Limestone of Albany County. Geol. rep. 13 (for 1893) 1894. p.245-46. *Same*, Mus. rep. 47 (for 1893) 1894. p.439-40.
- Darton. Becraft Limestone of Ulster County. Geol. rep. 13 (for 1893) 1894. p.304. *Same*, Mus. rep. 47 (for 1893) 1894. p.498.
- Ries. Becraft Limestone. Geol. rep. 17 (for 1897) 1899. p.364. *Same*, Mus. rep. 51 (for 1897) 1899. 2:364.
— — — *revised*. Mus. bul. 44. 1901. p.762. *Same*, Mus. rep. 54 (for 1900) 1902. 3:762.
- Ries. Becraft Limestone of Albany County. Geol. rep. 17 (for 1897) 1899. p.429. *Same*, Mus. rep. 51 (for 1897) 1899. 2:429.
— — — *revised*. Mus. bul. 44. 1901. p.770. *Same*, Mus. rep. 54 (for 1900) 1902. 3:770.
- Ries. Becraft Limestone of Columbia County. Geol. rep. 17 (for 1897) 1899. p.431. *Same*, Mus. rep. 51 (for 1897) 1899. 2:431.
— — — *revised*. Mus. bul. 44. 1901. p.776-77. *Same*, Mus. rep. 54 (for 1900) 1902. 3:776-77.
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- See also* Encrinal limestone (Scutella); Scutella limestone.
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- Bedbugs.** Felt. Bedbug. Ag. Soc. Trans. 59 (for 1899) 1900. p.299-300.
- Bedford, limestone of.** Mather. Limestone of Bedford. Geol. rep. 1st dist. (for 1838) 1839. p.91.
- Beekmantown limestone (Calciferous sandrock).** *b* Clarke & Schuchert. Beekmantown Limestone. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
- Ruedemann. Graptolite (Levis) Facies of the Beekmantown Formation in Rensselaer County N. Y. Mus. bul. 52. 1902. p.546-75.
- See also* Calciferous sandrock.
- Bees,** *see* Hymenoptera.
- Beetles,** *see* Coleoptera.
- Bellvale flags.** Ries. Bellvale Flags of Orange County. Geol. rep. 15 (for 1895) 1897. p.404. *Same*, Mus. rep. 49 (for 1895) 1898. 2:404.
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a First use of term.

b First use of term in original publication of this article. Science. 1899. new ser 10:877.

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- Binghamton. Smock. Stone Construction in. Mus. bul. 10. 1890. p.337-38.
- Biotite. Merrill. Biotite. Mus. bul. 19. 1898. p.122. *Same*, Mus. rep. 51 (for 1897) 1899. 1:122.
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- De Kay. Birds. Assembly doc. 1840. no.50. p.8-11, 20-26. Zool. N. Y. 1844. v.2. pt2. 380p. 141pl.
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- Darton. Birdseye Limestone of the Mohawk Valley. Geol. rep. 13 (for 1893) 1894. p.422-24. *Same*, Mus. rep. 47 (for 1893) 1894. p.616-18.
- ^aEaton. Birdseye Marble. Geol. and Agric. Surv. adjoining the Erie Canal. 1824. p.32.
- Emmons. Birdseye Limestone. Geol. N. Y. pt2. 1842. p.107-10, 168. Ag. N. Y. 1846. 1:122.
- Emmons. Birdseye Limestone of Clinton County. Geol. N. Y. pt2. 1842. p.317-18.
- Emmons. Birdseye Limestone of Jefferson County. Geol. rep. 2d dist. (for 1839) 1840. p.324. Geol. N. Y. pt2. 1842. p.382-86.
- Emmons. Fossils. Geol. N. Y. pt2. 1842. p.108-10, 317, 382-86.
- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.28. Pal. N. Y. 1847. 1:37-46.
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- Lincklaen. Birdseye Limestone; Fossils. Mus. rep. 14 (for 1860) 1861. p.41.
- Merrill. Birdseye Limestone. Mus. bul. 19. 1898. p.147-48. *Same*, Mus. rep. 51 (for 1897) 1899. 1:147-48.
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- Ries. Birdseye Limestone. Geol. rep. 17 (for 1897) 1899. p.361. *Same*, Mus. rep. 51 (for 1897) 1899. 2:361.
 ———— *revised.* Mus. bul. 44. 1901. p.756, 757. *Same*, Mus. rep. 54 (for 1900) 1902. 3:756, 757.

^aFirst use of term.

Birdseye limestone (*continued*)

Ries. Birdseye Limestone of Herkimer County. Geol. rep. 17 (for 1897) 1899. p.438. *Same*, Mus. rep. 51 (for 1897) 1899. 2:438.

— — — *revised*. Mus. bul. 44. 1901. p.788. *Same*, Mus. rep. 54 (for 1900) 1902. 3:788.

Ries. Birdseye Limestone of Jefferson County. Mus. bul. 44. 1901. p.789-90. *Same*, Mus. rep. 54 (for 1900) 1902. 3:789-90.

Ries. Birdseye Limestone of Lewis County. Mus. bul. 44. 1901. p.790-91. *Same*, Mus. rep. 54 (for 1900) 1902. 3:790-91.

Smock. Birdseye Limestone. Mus. bul. 3. 1888. p.21; 10. 1890. p.210-11.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.426. *Same*, Mus. rep. 48 (for 1894) 1895. 1:426 (2d paging).

— — — Mus. bul. 19. 1898. p.200. *Same*, Mus. rep. 51 (for 1897) 1899. 1:200.

Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).

Vanuxem. Birdseye Limestone. Geol. rep. 3d dist. (for 1837) 1838. p.255, 266, 283; (for 1839) 1840. p.370. Geol. N. Y. pt3. 1842. p.39-42, 45.

Vanuxem. Birdseye Limestone in Montgomery County. Geol. rep. 3d dist. (for 1837) 1838. p.259. Geol. N. Y. pt3. 1842. p.250.

Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.39-40.

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See also Gray sparry limestone (Conrad's first report); Lowville limestone.

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Whitlock. Bismuth. Mus. bul. 58. 1902. p.49.

Bismuthinite. Beck. Bismuthine. Min. N. Y. 1842. p.447.

Hunt. Bismuthine. Mus. rep. 21 (for 1867) 1871. p.91.

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Black lead, *see* Graphite.

Black marble. Emmons. Black Marble of Isle la Motte. Geol. N. Y. pt2. 1842. p.110-11, 168, 318-19. Ag. N. Y. 1846. 1:123.

Emmons. Isle La Motte Marble in Jefferson County. Geol. N. Y. pt2. 1842. p.386.

Emmons. Black Marble of Glen's Falls. Geol. N. Y. pt2. 1842. p.181-82.

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Pt1 Geologic map of parts of Chenango, Madison, Otsego, Schoharie and Albany counties, 58x33.5cm.

Pt2 Map showing distribution of middle and upper Devonian rocks in central eastern New York, 61x38.5cm; Map of Delaware county, by W. L. Fisher, 34x32cm.

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Chemung group (*continued*)

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Clinton group (*continued*)

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See also Anthozoa; Corals; Hydrozoa.

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^aFirst use of term in report of paleontologist to secretary of Regents. Regents bulletin 59. 1903. p.42.

^bFirst use of term in original publication of this article. Science. 1899. new ser. 10:877.

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- Agrilus ruficollis*. Ent. rep. 6, p.123-25. *Same*, Mus. rep. 43, p.123-25.
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- Anthrenus scrophulariae*. Mus. rep. 30, p.127-35.
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^aFirst use of term.

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*a*Term first defined by Bell. Described by Logan. Can. Geol. Surv. 1863. p. 298-344.

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Pt 1 Geologic map of parts of Chenango, Madison, Otsego, Schoharie and Albany counties, 58x33.5cm.

Pt 2 Map showing distribution of middle and upper Devonian rocks in central-eastern New York, 61x38.5cm.; map of Delaware county, by W. L. Fisher, 34x32cm.

Ries. Hamilton Group of Orange County. Geol. rep. 15 (for 1895) 1897. p.403-4. *Same*, Mus. rep. 49 (for 1895) 1898. 2:403-4.

Smock. Hamilton Group. Mus. bul. 3. 1888. p.17-18; 10. 1890. p.222-23.

— — *revised by* Merrill. Mus. bul. 15. 1895. p.387-88. *Same*, Mus. rep. 48 (for 1894) 1895. 1:387-88 (2d paging).

— — *revised by* Merrill. Mus. bul. 19. 1898. p.191-92. *Same*, Mus. rep. 51 (for 1897) 1899. 1:191-92.

Smock. Quarries. Mus. bul. 3. 1888. p.71-85; 10. 1890. p.265-75.

— — *revised by* Merrill. Mus. bul. 15. 1895. p.400-8. *Same*, Mus. rep. 48 (for 1894) 1895. 1:400-8 (2d paging).

^aVanuxem. Hamilton Group. Geol. rep. 3d dist. (for 1839) 1840. p.380. Geol. N. Y. pt3. 1842. p.150-63.

Vanuxem. Hamilton Group in Broome County. Geol. N. Y. pt3. 1842. p.295.

Vanuxem. Hamilton Group in Cayuga County. Geol. N. Y. pt3. 1842. p.288-89.

Vanuxem. Hamilton Group in Chenango County. Geol. N. Y. pt3. 1842. p.292-93.

Vanuxem. Hamilton Group in Cortland County. Geol. N. Y. pt3. 1842. p.290.

Vanuxem. Hamilton Group in Madison County. Geol. N. Y. pt3. 1842. p.275-77.

Vanuxem. Hamilton Group in Oneida County. Geol. N. Y. pt3. 1842. p.264.

Vanuxem. Hamilton County in Onondaga County. Geol. N. Y. pt3. 1842. p.285.

Vanuxem. Hamilton Group in Otsego County. Geol. N. Y. pt3. 1842. p.254.

Vanuxem. Hamilton Group in Tompkins County. Geol. N. Y. pt3. 1842. p.298.

Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.151-53, 158-63, 306.

See also Hamilton shales; Marcellus shales; Tully limestone.

Hamilton shales. Bishop. Hamilton Shales of Erie County. Geol. rep. 15 (for 1895) 1897. p.316-20. *Same*, Mus. rep. 49 (for 1895) 1898. 2:316-20.

Clarke. Hamilton Shales of Ontario County. Geol. rep. 4 (for 1884) 1885. p.12-17.

Clarke & Schuchert. Hamilton Beds. *See* New York series.

Darton. Hamilton Flags and Shales; Hamilton Black Shales in Albany County. Geol. rep. 13 (for 1893) 1894. p.240-42. *Same*, Mus. rep. 47 (for 1893) 1894. p.434-36.

^aFirst use of term.

Hamilton shales (*continued*)

- Darton. Hamilton Shales of Ulster County. Geol. rep. 13 (for 1893) 1894. p.300-1. *Same*, Mus. rep. 47 (for 1893) 1894. p.494-95.
- Emmons. Hamilton Shales. Ag. N. Y. 1846. 1:183-86.
- Grabau. Hamilton Shales. Geol. rep. 16 (for 1896) 1899. p.235-36. *Same*, Mus. rep. 50 (for 1896) 1899. 2:235-36.
- Lincoln. Hamilton Shales of Seneca County. Geol. rep. 14 (for 1894) 1895. p.93-95. *Same*, Mus. rep. 48 (for 1894) 1895. 2:93-95.
- Luther. Hamilton Shales of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.280-82. *Same*, Mus. rep. 49 (for 1895) 1898. 2:280-82.
- Luther. Hamilton Shales of the Salt District. Geol. rep. 16 (for 1896) 1899. p.217-19. *Same*, Mus. rep. 50 (for 1896) 1899. 2:217-19.
- Merrill. Hamilton Shale. Mus. bul. 19. 1898. p.163. *Same*, Mus. rep. 51 (for 1897) 1899. 1:163.
- Ries. Hamilton Shale. Geol. rep. 15 (for 1895) 1897. p.693-94. *Same*, Mus. rep. 49 (for 1895) 1898. 2:693-94.
- — — *revised*. Mus. bul. 35. 1900. p.831-34. *Same*, Mus. rep. 54 (for 1900) 1902. 2:831-34.
- Harlem quadrangle.** Woodworth. Harlem Quadrangle. Mus. bul. 48. 1901. p.648-50. *Same*, Mus. rep. 54 (for 1900) 1902. 4:648-50.
- Harmatome.** Beck. Harmatome. Min. N. Y. 1842. p.451.
- Harrison diorite.** Eckel. Quarries. Geol. rep. 20 (for 1900) 1902. p.r165-66. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r165-66.
- Merrill. Harrison Diorite. Mus. rep. 50 (for 1896) 1898. 1:30 (1st paging).
- Hartz mountains.** Clarke. The Hercynian Question. Geol. rep. 8 (for 1888) 1889. p.62-91. *Same*, Mus. rep. 42. (for 1888) 1889. p.408-37.
- Heavy spar,** *see* Barite.
- Helderberg division.** Denniston. Helderberg Division in Orange County. Ag. Soc. Trans. 22 (for 1862) 1863. p.155.
- Emmons. Helderberg Series. Geol. N. Y. pt2. 1842. p.100, 429.
- Emmons. Helderberg Division. Ag. N. Y. 1846. 1:153-79.
- Hall. Helderberg Series. Geol. N. Y. pt4. 1843. p.18, 117-76.
- α Mather. Helderberg Limestone Group. Geol. rep. 1st dist. (for 1839) 1840. p.212, 236-46; (for 1840) 1841. p.85-89.
- Mather. Helderberg Division. Geol. N. Y. pt1. 1843. p.324-53.
- Mather. Fossils. Geol. N. Y. pt1. 1843. p.324, 333, 337-53.
- Mather. Economical Applications. Geol. N. Y. pt1. 1843. p.326-30.
- Vanuxem. Helderberg Division. Geol. N. Y. pt3. 1842. p.15-16, 94-146.
- Helderberg limestones (Coeymans; Becraft; Scutella; Lower Helderberg; Lower Pentamerus).**
- Clarke. Hercynian Question. Geol. rep. 8 (for 1888) 1889. p.62-91. *Same*, Mus. rep. 42 (for 1888) 1889. p.408-37.
- Clarke. Devonian Age of the Helderbergian Fauna and the Base of the Devonian System in New York. Mus. mem. 3. 1900. p.82-98. *Same*, Mus. rep. 53 (for 1899) 1901. 2:82-98.
- Clarke. Helderbergian Fauna. Mus. bul. 52. 1902. p.665-66.
- α Conrad. Helderberg Limestones. Pal. rep. (for 1838) 1839. p.62.
- Darton. Report on the Relations of the Helderberg Limestones and Associated Formations in Eastern New York. Geol. rep. 13 (for 1893) 1894. p.197-228. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.391-422. pl. (phot.)
- Merrill. Helderberg Rocks. Mus. bul. 19. 1898. p.156-57. *Same*, Mus. rep. 51 (for 1897) 1899. 1:156-57.

Helderberg limestones (*continued*)

- Ries. Helderberg Limestones. Geol. rep. 17 (for 1897) 1899. p.364-70. *Same*, Mus. rep. 51 (for 1897) 1899. 2:364-70.
- Ries. Lower Helderberg Limestones. Mus. bul. 44. 1901. p.759-64. *Same*, Mus. rep. 54 (for 1900) 1902. 3:759-64.
- Ries. Helderberg Limestone of Albany County. Geol. rep. 17 (for 1897) 1899. p.429-31. *Same*, Mus. rep. 51 (for 1897) 1899. 2:429-31.
- Ries. Lower Helderberg Limestone of Albany County. Mus. bul. 44. 1901. p.770-72. *Same*, Mus. rep. 54 (for 1900) 1902. 3:770-72.
- Ries. Lower Helderberg Limestone of Cayuga County. Mus. bul. 44. 1901. p.773-74. *Same*, Mus. rep. 54 (for 1900) 1902. 3:773-74.
- Ries. Helderberg Limestone of Genesee County. Mus. bul. 44. 1901. p.783-85. *Same*, Mus. rep. 54 (for 1900) 1902. 3:783-85.
- Ries. Lower Helderberg Limestone of Greene County. Mus. bul. 44. 1901. p.786. *Same*, Mus. rep. 54 (for 1900) 1902. 3:786.
- Ries. Helderberg Limestones of Herkimer County. Geol. rep. 17 (for 1897) 1899. p.438. *Same*, Mus. rep. 51 (for 1897) 1899. 2:438.
- — — *revised*. Mus. bul. 44. 1901. p.788. *Same*, Mus. rep. 54 (for 1900) 1902. 3:788.
- Ries. Helderberg Limestones of Livingston County. Mus. bul. 44. 1901. p.792. *Same*, Mus. rep. 54 (for 1900) 1902. 3:792.
- Ries. Lower Helderberg Limestone of Madison County. Mus. bul. 44. 1901. p.793. *Same*, Mus. rep. 54 (for 1900) 1902. 3:793.
- Ries. Helderberg Limestones of Oneida County. Geol. rep. 17 (for 1897) 1899. p.445. *Same*, Mus. rep. 51 (for 1897) 1899. 2:445.
- — — *revised*. Mus. bul. 44. 1901. p.801-3. *Same*, Mus. rep. 54 (for 1900) 1902. 3:801-3.
- Ries. Helderberg Limestones of Onondaga County. Geol. rep. 17 (for 1897) 1899. p.447-48. *Same*, Mus. rep. 51 (for 1897) 1899. 2:447-48.
- Ries. Lower Helderberg Limestone of Onondaga County. Mus. bul. 44. 1901. p.803-6. *Same*, Mus. rep. 54 (for 1900) 1902. 3:803-6.
- Ries. Lower Helderberg Limestones of Ontario County. Mus. bul. 44. 1901. p.807-8. *Same*, Mus. rep. 54 (for 1900) 1902. 3:807-8.
- Ries. Helderberg Limestones of Orange County. Geol. rep. 15 (for 1895) 1897. p.401-2. *Same*, Mus. rep. 49 (for 1895) 1898. 2:401-2.
- Ries. Lower Helderberg Limestones of Orange and Rockland Counties. Mus. bul. 44. 1901. p.810. *Same*, Mus. rep. 54 (for 1900) 1902. 3:810.
- Ries. Helderberg Limestones of Schoharie County. Mus. bul. 44. 1901. p.816. *Same*, Mus. rep. 54 (for 1900) 1902. 3:816.
- See also* Becraft limestone; Coeymans limestone; Helderberg division; Lower Helderberg group; Scutella limestone.
- Helderberg sandstones.** ^aConrad. Helderberg Sandstones. Pal. rep. (for 1838) 1839. p.62.
- Helderbergian (Lower Helderberg).** Clarke & Schuchert. Helderbergian. Mus. mem. 3. 1900. p.10. *Same*, Mus. rep. 53 (for 1899) 1901. 2:10.
- Helderbergs.** Hall. Rocks of the Helderberg Mountains. Pal. N. Y. 1859. 3:97-98.
- Prosser & Rowe. Stratigraphic Geology of the Eastern Helderbergs. Geol. rep. 17 (for 1897) 1899. p.329-54. pl. (phot.) *Same*, Mus. rep. 51 (for 1897) 1899. 2:329-54. pl. (phot.)
- Prosser. Sections of the Formations along the Northern End of the Helderberg Plateau. Geol. rep. 18 (for 1898) 1899. p.51-72. pl. (phot.) *Same*, Mus. rep. 52 (for 1898) 1900. 2:51-72. pl. (phot.)

^aFirst use of term.

- Hell Gate.** Meriam. Description of the Means employed to remove the Rocks at Hurlgate by Submarine Engineering. Mus. rep. 5 (for 1851) 1852. p.59-64. illus.
- Hematite.** Beck. Specular Iron Ore. Min. rep. (for 1836) 1837. p.28-32 (ed. 2, p.30-34); (for 1838) 1839. p.46. Min. N. Y. 1842. p. 23-26, 385-86.
- Conrad. Red Oxide of Iron and Associated Strata. Geol. rep. 3d dist. (for 1836) 1837. p.176-77 (ed. 2, p.178-79).
- Emmons. Specular Oxide of Iron. Geol. rep. 2d dist. (for 1837) 1838. p.206-8. Geol. N. Y. pt2. 1842. p.92-98.
- Emmons. Hematitic Iron, or Limonite. Geol. N. Y. pt2. 1842. p.161-62.
- Emmons. Iron Ores of the Primary District of St Lawrence County. Geol. N. Y. pt2. 1842. p.341-47.
- Emmons. Specular Oxide of Iron in Jefferson County. Geol. N. Y. pt2. 1842. p.376-77.
- Hall. Specular Oxide of Iron. Geol. rep. 2d dist. (for 1836) 1837. p.136-38 (ed. 2, p.138-40).
- Hunt. Hematite. Mus. rep. 21 (for 1867) 1871. p.88-89.
- Merrill. Localities in New York. Mus. bul. 15. 1895. p.543. *Same*, Mus. rep. 48 (for 1894) 1895. 1:543 (2d paging).
- Salisbury. Analysis of a Specimen of Hematitic Iron Ore. Mus. rep. 4 (for 1850) 1851. p.111.
- Smock. Hematite Ores of St Lawrence and Jefferson Counties. Mus. bul. 7. 1889. p.10-11, 44-48.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.537-38. *Same*, Mus. rep. 48 (for 1894) 1895. 1:537-38 (2d paging).
- — — *revised* by Merrill. Mus. bul. 19. 1898. p.219. *Same*, Mus. rep. 51 (for 1897) 1899. 1:219.
- Smyth. Hematites of St Lawrence and Jefferson Counties. Geol. rep. 13 (for 1893) 1894. p.498-511. *Same*, Mus. rep. 47 (for 1893) 1894. p.692-705.
- Vanuxem. Specular Iron Ore of Lewis County. Geol. N. Y. pt3. 1842. p.267.
- Whitlock. Hematite. Mus. bul. 58. 1902. p.71-72.
- See also* Clinton ores; Iron ores.
- Hemiptera.** Additions to Collection. Ent. rep. 3, p.141-42; 4, p.208; 5, p.326; 6, p.189; 7, p.383-84; 8, p.299; 9, p.463-64; 10, p.512, 517-19; 11, p.287-88; 12, p.363; 13, p.374; 14, p.259-62; 15, p.613-18; 16, p.1042-45; 17, p.820-24; 18, p.174-77.
- For dates of reports, *see* List of publications, p.264.
- Fitch. Catalogue with References and Descriptions of the Insects collected and arranged for the State Cabinet of Natural History. Mus. rep. 4 (for 1850) 1851. p.43-69.
- On the Homoptera. Reprinted in Ent. rep. 9 and Mus. rep. 46, p. 331-409.
- Lintner. Species Treated. Ent. rep. 1 (for 1881) 1882. p.264-88.
- — — Ent. rep. 2 (for 1882 and 1883) 1885. p.144-87.
- — — Ent. rep. 3 (for 1886) 1887. p.107-28. *Same*, Mus. rep. 40 (for 1886) 1887. p.107-28.
- — — Ent. rep. 4 (for 1887) 1888. p.107-21, 156-58. *Same*, Mus. rep. 41 (for 1887) 1888. p.227-41, 276-78.
- — — Ent. rep. 5 (for 1888) 1889. p.242-57. *Same*, Mus. rep. 42 (for 1888) 1889. p.242-57.
- — — Ent. rep. 6 (for 1889) 1890. p.137-48. *Same*, Mus. rep. 43 (for 1889) 1890. p.137-48.
- — — Ent. rep. 7 (for 1890) 1891. p.296-301, 317-18. *Same*, Mus. rep. 44 (for 1890) 1892. p.296-301, 317-18.
- — — Ent. rep. 8 (for 1891) 1893. p.152-55. *Same*, Mus. rep. 45 (for 1891) 1892. p.152-55.

Hemiptera (*continued*)

- Ent. rep. 9 (for 1892) 1893. p.315-29. *Same*, Mus. rep. 46 (for 1892) 1893. p.315-29.
- Ent. rep. 10 (for 1894) 1895. p.420-39. *Same*, Mus. rep. 48 (for 1894) 1895. 1:420-39 (1st paging).
- Ent. rep. 11 (for 1895) 1896. p.198-233. *Same*, Mus. rep. 49 (for 1895) 1897. 1:198-233.
- Ent. rep. 12 (for 1896) 1897. p.272-98. *Same*, Mus. rep. 50 (for 1896) 1898. 1:272-98 (1st paging).
- Ent. rep. 13 (for 1897) 1898. p.351-57. *Same*, Mus. rep. 51 (for 1897) 1899. 1:351-57.
- Say. Heteropterus Hemiptera. Ag. Soc. Trans. 17 (for 1857) 1858. p.754-812.

Species

The following list of species includes only the more important accounts by Lintner in Ent. rep. 1-13; by Felt in Ag. Soc. Trans. 59, Forest, Fish and Game Com. reports.

- Acanthia lectularia. Ag. Soc. Trans. 59, p.299-300.
- Blissus leucopterus. Ent. rep. 2, p.148-64.
- Chermes pinicorticis. Forest, Fish and Game Com. rep. 7. *In press*.
- Cicada septendecim. Ent. rep. 12, p.272-89. *Same*, Mus. rep. 50, 1:272-89 (1st paging).
- Lygus pratensis. Ent. rep. 13, p.351-57. *Same*, Mus. rep. 51, 1:351-57.
- Poecilocapsus lineatus. Ent. rep. 1, p.271-81.
- Psylla pyricola. Ent. rep. 9, p.317-29. *Same*, Mus. rep. 46, p.317-29.
- Hemiptera. Scale insects.** Felt. Experiments on Scale Insects. Ent. rep. 16 (for 1900) 1901. p.967-88 (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:967-88.
- Ent. rep. 17 (for 1901) 1902. p.761-75. (Mus. bul. 53).
- Ent. rep. 18 (for 1902). p.126-43. *In press*.
- Felt. Scale Insects of Importance and a List of the Species in New York. Mus. bul. 46. 1901. p.289-377. 7pl. (lith.) Spl. phot. *Same*, Mus. rep. 54 (for 1900) 1902. 4:289-377. 7pl. (lith.) Spl. (phot.)
- Lintner. Species Treated. Ent. rep. 4 (for 1887) 1888. p.114-20. *Same*, Mus. rep. 41 (for 1887) 1888. p.234-40.
- Ent. rep. 6 (for 1889) 1890. p.141-47. *Same*, Mus. rep. 43 (for 1889) 1890. p.141-47.
- Ent. rep. 11 (for 1895) 1896. p.200-33. *Same*, Mus. rep. 49 (for 1895) 1897. 1:200-33.
- Ent. rep. 12 (for 1896) 1897. p.292-98. *Same*, Mus. rep. 50 (for 1896) 1898. 1:292-98 (1st paging).

Species

The following list of species includes only the more important accounts by Lintner in Ent. rep. 1-13, Mus. bul. 13; by Felt in Ent. rep. 14-18, Ag. Soc. Trans. 59, Forest, Fish and Game Com. reports, Mus. bul. 20, 27, 46.

- Aspidiotus ancylus. Putnam's scale insect. Mus. bul. 46, p.326-30. *Same*, Mus. rep. 54, 4:326-30.
- Aspidiotus forbesi. Cherry scale insect. Mus. bul. 46, p.330-32. *Same*, Mus. rep. 54, 4:330-32.
- Aspidiotus hederæ. Ivy scale insect. Ent. rep. 11. p.203-4. *Same*, Mus. rep. 49, 1:203-4.
- Mus. bul. 46, p.333-36. *Same*, Mus. rep. 54, 4:333-36.
- Aspidiotus ostreaeformis. European fruit tree scale insect. Mus. bul. 46, p.323-26. *Same*, Mus. rep. 54, 4:323-26.
- Aspidiotus perniciosus. San José scale insect. Ent. rep. 11, p.200-33. *Same*, Mus. rep. 49, 1:200-33.

Hemiptera. *Scale insects (continued)*

- Mus. bul. 13, p.263-305. *Same*, Mus. rep. 48, 1:263-305 (2d paging).
- Ent. rep. 16, p.967-88. *Same*, Mus. rep. 54, 2:967-88.
- Mus. bul. 46, p.304-23, 336-42. *Same*, Mus. rep. 54, 4:304-23, 336-42.
- Ent. rep. 17, p.761-75. (Mus. bul. 53).
- Ent. rep. 18, p.126-43. *In press*.
- Chionaspis furfura. Scurfy bark louse. Mus. bul. 46, p.300-4. *Same*, Mus. rep. 54, 4:300-4.
- Chionaspis pinifoliae. Pine leaf scale insect. Forest, Fish and Game Com. rep. 7. *In press*.
- Gossyparia ulmi. Elm tree bark louse. Ent. rep. 12, p.292-98. *Same*, Mus. rep. 50, 1:292-98.
- Mus. bul. 20, p.16-18. *Same*, Mus. rep. 52, 1:16-18.
- Mus. bul. 27, p.46. *Same*, Mus. rep. 53, 1:46.
- Forest, Fish and Game Com. rep. 5, p.375-79.
- Lecanium tulipiferae. Tulip tree scale insect. Ent. rep. 14, p.213-16. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:213-16.
- Mytilaspis pomorum. Appletree bark louse. Ent. rep. 4, p.114-20. *Same*, Mus. rep. 41, p.234-40.
- Mus. bul. 46, p.297-300. *Same*, Mus. rep. 54, 4:297-300.
- Pulvinaria innumerabilis. Cottony maple tree insect. Ent. rep. 6, p.141-47. *Same*, Mus. rep. 43, p.141-47.
- Mus. bul. 27, p.52. *Same*, Mus. rep. 53, 1:52.
- Forest, Fish and Game Com. rep. 4, p.393-95.

Hempstead quadrangle. Woodworth. Hempstead Quadrangle. Mus. bul. 48. 1901. p.618. *Same*, Mus. rep. 54 (for 1900) 1902. 4:618.

Hepatic springs, *see* Sulfur springs.

Hercynian question. Clarke. The Hercynian Question. Geol. rep. 8 (for 1888) 1889. p.62-91. *Same*, Mus. rep. 42 (for 1888) 1889. p.408-37.
See also Helderberg limestones.

Herkimer county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.69-70.
Cushing. Pre-Cambrian Outlier at Little Falls. Geol. rep. 20 (for 1900) 1902. p.83-95. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r83-95.

Darton. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 13 (for 1893) 1894. p.407-29. pl. (phot.) *Same*, Mus. rep. 47. (for 1893) 1894. p.601-23. pl. (phot.)

Darton. Faulted Region. Geol. rep. 14 (for 1894) 1895. p.11-12, 31-53. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:11-12, 31-53. pl. (phot.) map.

Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.

Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.561. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:561.

— — Ent. rep. 16 (for 1900) 1901. p.1011-12. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1011-12.

— — Ent. rep. 17 (for 1901) 1902. p.784-86. (Mus. bul. 53).

— — Ent. rep. 18 (for 1902). p.148-49. *In press*.

Ries. Brick Yards. Mus. bul. 12. 1895. p.197, 198, 246. *Same*, Mus. rep. 48 (for 1894) 1895. 1:197, 198, 246 (2d paging).

— — Mus. bul. 35. 1900. p.713, 714. *Same*, Mus. rep. 54 (for 1900) 1902. 2:713, 714.

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— — *revised*. Mus. bul. 44. 1901. p.787-89. *Same*, Mus. rep. 54 (for 1900) 1902. 3:787-89.

Herkimer county (*continued*)

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.32, 71, 112-13; 10. 1890. p.232, 246, 250, 273.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.378, 395-96, 439, 443. *Same*, Mus. rep. 48 (for 1894) 1895. 1:378, 395-96, 439, 443 (2d paging).

Vanuxem. Herkimer County. Geol. rep. 3d dist. (for 1837) 1838. p.266-73. Geol. N. Y. pt3. 1842. p.255-59.

White. Report on the Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:r21-54. pl. (phot.) 2 maps.

Map of the vicinity of Frankfort hill. 31.5x16.5cm.

Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.

Young. List of Coleoptera taken at Newport, Herkimer co., N. Y. Ent. rep. 18 (for 1902). p.153-61. *In press*.

Hessian fly. Felt. Hessian Fly. Ent. rep. 17 (for 1901) 1902. p.705-30. (Mus. bul. 53).

Fitch. Hessian Fly. Ag. Soc. Trans. 21 (for 1861) 1862. p.819-30 (rep.7. sep. ed. p.133-44).

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Whitlock. Heulandite. Mus. bul. 58. 1902. p.109.

Hickory borer. Lintner. Painted Hickory Borer. Ent. rep. 8 (for 1891) 1893. p.175-76. *Same*, Mus. rep. 45 (for 1891) 1892. p.175-76.

Highlandite. Mather. Highlandite, Allanite. Geol. N. Y. pt1. 1843. p.512.

Highlands of Hudson. Mather. Altered Taconic Rocks. Geol. N. Y. pt1. 1843. p.446-50.

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Mather. Miscellaneous Remarks. Geol. N. Y. pt1. 1843. p.542-58.

Mather. Magnetic Oxide of Iron. Geol. N. Y. pt1. 1843. p.559-75.

Smock. Geological Reconnaissance in the Crystalline Rock Region: Dutchess, Putnam and Westchester Counties, New York. Mus. rep. 39 (for 1885) 1886. p.165-85. map.

Map of Archaean areas of Highlands (uncolored) 11x18.5cm.

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^aFirst use of term.

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- Ent. rep. 4 (for 1887) 1888. p.27-48. *Same*, Mus. rep. 41 (for 1887) 1888. p.147-68.
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- Igneous rocks.** Emerson. Notes upon Two Boulders of a very Basic Eruptive Rock from the West Shore of Canandaigua Lake, and their Contact Phenomena upon the Trenton Limestone. Geol. rep. 12 (for 1892) 1893. p.105-9. *Same*, Mus. rep. 46 (for 1892) 1893. p.251-55.
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^a First use of term.

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^aFirst use of term in original publication of this article. Science. 1899. new ser. 10:378.

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- Lentinus.** Peck. Genus Lentinus. Mus. rep. 23 (for 1869) 1873. p.126-27.
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- Ent. rep. 16 (for 1900) 1901. p.955-66. *Same*, Mus. rep. 54 (for 1900) 1902. 2:955-66.
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- Acidalia lacteola*. Mus. rep. 30, p.224.
- Alypia octomaculata*. Ent. rep. 5, p.179-83. *Same*, Mus. rep. 42, p.179-83.
- Anisota senatoria*. Ent. rep. 5, p.192-200. *Same*, Mus. rep. 42, p.192-200.
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- Bucculatrix pomifoliella*. Ent. rep. 1, p.157-62.
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- Carpocapsa pomonella*. Ent. rep. 9, p.338-42. *Same*, Mus. rep. 46, p.338-42.
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- Cerura aquilonaris*. Mus. rep. 30, p.197-99.
- Cerura candida*. Mus. rep. 30, p.199-200.
- Cerura occidentalis*. Mus. rep. 30, p.194-95.
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- Clisiocampa americana*. Ent. rep. 14, p.117-90. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:177-90.
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- Cucullia intermedia*. Mus. rep. 23, p.217-22.
- Cucullia lucifuga*. Mus. rep. 23, p.217-22.
- Cucullia serraticornis*. Mus. rep. 26, p.174-76.
- Cucullia speyeri*. Mus. rep. 26, p.168-74.
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- Mus. bul. 37, p.13-14. *Same*, Mus. rep. 54, 3:13-14.
- Ellema pineum*. Mus. rep. 23, p.169-71.
- Eudamus epigena*. Mus. rep. 30, p.181-82.

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Hydroecia nitela. Ent. rep. 1, p.110-16.
Hyphantria cunea. Forest, Fish and Game Com. rep. 5, p.363-68.
Hypocala hilli. Mus. rep. 30, p.217-19.
Leucania unipuncta. Ent. rep. 12, p.190-214. *Same*, Mus. rep. 50, 1:190-214 (1st paging).
Lycaena lotis. Mus. rep. 30, p.169-70.
Mamestra picta. Ent. rep. 5, p.206-10. *Same*, Mus. rep. 42, p.206-10.
 — Ent. rep. 14, p.201-7. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:201-7.
Mecyna reversalis. Ent. rep. 11, p.142-45. *Same*, Mus. rep. 49, 1:142-45.
Melitaea nycteis. Mus. rep. 23, p.158-59.
Melitaea phaeton. Mus. rep. 23, p.154-57.
Melitta satyriniformis. Ent. rep. 2, p.57-68.
Nisoniades afranius. Mus. rep. 30, p.175-76.
Nisoniades ausonius. Mus. rep. 23, p.166-68.
Nisoniades icelus. Mus. rep. 23, p.162-64.
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Nisoniades pacuvius. Mus. rep. 30, p.172-73.
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 — Ent. rep. 11, p.124-26. *Same*, Mus. rep. 49, 1:124-26.
 — Ent. rep. 14, p.163-76. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:163-76.
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Xylina lepida. Mus. rep. 30, p.207-8.

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Leucite. Whitlock. Leucite. Mus. bul. 58. 1902. p.91.

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White. Report on the Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:21-54. pl. (phot.) 2 maps.

Map of the vicinity of Frankfort hill, 31.5x16.5cm.

Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.

Libethenite. Whitlock. Libethenite. Mus. bul. 58. 1902. p.120.

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Lignite. Beck. Lignite. Min. rep. (for 1836) 1837. p.59 (ed. 2, p.61); (for 1838) 1839. p.16. Min. N. Y. 1842. p.191-92.

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Hall. Lime in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.159-61. Geol. N. Y. pt4. 1843. p.472.

Mather. Lime and Hydraulic Cement. Geol. rep. 1st dist. (for 1839) 1840. p.239-44. Geol. N. Y. pt1. 1843. p.328-30.

Mather. Lime, whence derived. Geol. N. Y. pt1. 1843. p.77-79.

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Emmons. Transition, or Blue Limestone. Geol. rep. 2d dist. (for 1836) 1837. p.119-20 (ed. 2, p.121-22).

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Emmons. Transition Rocks of Essex; Limestones, Shales, etc. Geol. rep. 2d dist. (for 1837) 1838. p.226-30.

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Lincoln. Limestone of Seneca County. Geol. rep. 14 (for 1894) 1895. p.111. *Same*, Mus. rep. 48 (for 1894) 1895. 2:111.

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Mather. Red Conglomerate Limestone. Geol. rep. 1st dist. (for 1838) 1839. p.126-27. Geol. N. Y. pt1. 1843. p.288-89.

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Merrill. Directory of Quarrymen. Mus. bul. 15. 1895. p.486-93. *Same*, Mus. rep. 48 (for 1894) 1895. 1:486-93 (2d paging).

Merrill. Road Materials. Mus. bul. 17. 1897. p.105. *Same*, Mus. rep. 50 (for 1896) 1898. 1:105 (2d paging).

— — — Mus. bul. 19. 1898. p.205. *Same*, Mus. rep. 51 (for 1897) 1899. 1:205.

Nason. Limestone for Building in Albany County. Geol. rep. 13 (for 1893) 1894. p.279. *Same*, Mus. rep. 47 (for 1893) 1894. p.473.

Ries. Limestones of New York and their Economic Value. Geol. rep. 17 (for 1897) 1899. p.355-467. *Same*, Mus. rep. 51 (for 1897) 1899. 2:355-467.

Limestones (*continued*)

Ries. Lime and Cement Industries of New York, with analyses. Mus. bul. 44. 1901. p.637-968. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 3:637-968. pl. (phot.) maps.

Map of New York State showing location of limestone quarries and marl deposits and manufactories of natural and Portland cement (uncolored) 72x74cm.

Map of New York State showing distribution of limestone (uncolored) 44.5x35cm.

Smock. Limestones. Mus. bul. 3. 1888. p.20-22; 10. 1890. p.207-13.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.423-29. *Same*, Mus. rep. 48 (for 1894) 1895. 1:423-29 (2d paging).

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Smock. Tests; Durability; Causes of Decay. Mus. bul. 10. 1890. p.364-89.

Vanuxem. Limestone, Marl and Tufa. Geol. rep. 4th dist. (for 1836) 1837. p.191-93 (ed. 2, p. 193-95).

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See also Carboniferous system; Crystalline rocks; Primitive limestone; Waterlime; *also names of formations*, i. e. Onondaga limestone; Tully limestone, etc.

Limonite. Beck. Limonite; Hydrous Peroxide of Iron. Min. rep. (for 1836) 1837. p.33-39 (ed. 2, p.35-41); (for 1838) 1839. p.46. Min. N. Y. 1842. p.29-36, 386-87.

Carr. Bog-ore. Geol. rep. 3d dist. (for 1839) 1840. p.386.

Emmons. Bog Ore of St Lawrence County. Geol. rep. 2d dist. (for 1837) 1838. p.208-9. Geol. N. Y. pt2. 1842. p.348-49.

Emmons. Hematitic Iron, or Limonite. Geol. N. Y. pt2. 1842. p.161-62.

Hall. Bog Ore. Geol. rep. 2d dist. (for 1836) 1837. p.138-42 (ed. 2, p.140-44).

Hall. Bog Iron Ore. Geol. rep. 4th dist. (for 1838) 1839. p.335.

Hall. Bog Ore of Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.367. Geol. N. Y. pt4. 1843. p.447.

Hall. Bog Iron of Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.355. Geol. N. Y. pt4. 1843. p.437-38.

Hall. Bog and Argillaceous Iron of Wayne County. Geol. N. Y. pt4. 1843. p.419.

Mather. Bog Ore. Geol. rep. 1st dist. (for 1836) 1837. p.72-73 (ed. 2, p.74-75); (for 1839) 1840. p.224-25. Geol. N. Y. pt1. 1843. p.119-20, 236-37.

Mather. Bog Ore of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.156.

Mather. Limonite in Putnam and Westchester Counties. Geol. rep. 1st dist. (for 1838) 1839. p.107-8.

Mather. Limonite and Lead. Geol. rep. 1st dist. (for 1840) 1841. p.111-12.

Mather. Limonite or Hematite Ore Beds. Geol. N. Y. pt1. 1843. p.488-98.

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Nason. Limonite of Ulster County. Geol. rep. 13 (for 1893) 1894. p.598. *Same*, Mus. rep. 47 (for 1893) 1894. p.592.

Smock. Limonites of Dutchess and Columbia Counties. Mus. bul. 7. 1889. p.12-13, 52-61.

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Limonite (*continued*)

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Vanuxem. Bog Ore, Limonite. Geol. N. Y. pt3. 1842. p.228-29.

Whitlock. Limonite (brown hematite). Mus. bul. 58. 1902. p.77-78.

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Little Falls quadrangle. Cushing. Pre-Cambrian Outlier at Little Falls. Geol. rep. 20 (for 1900) 1902. p.83-95. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r83-95.

Cushing. Geology of the Vicinity of Little Falls. Mus. bul. *In press*.

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Bishop. Salt Wells of Western New York. Geol. rep. 5 (for 1885) 1886. p.12-47.

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Hall. Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.416-24. Geol. N. Y. pt4. 1843. p.459-64.

Ries. Limestone Formations. Mus. bul. 44. 1901. p.792-93. *Same*, Mus. rep. 54 (for 1900) 1902. 3:792-93.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.83-84, 88; 10. 1890. p.253, 274, 276.

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Livonia salt shaft. Clarke. Fossils Found in the Livonia Salt Shaft. Geol. rep. 11 (for 1891) 1892. p.10-11, 54-55. *Same*, Mus. rep. 45 (for 1891) 1892. p.326-27, 370-71.

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Clarke. Succession of the Fossil Faunas in the Section of the Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.131-58. *Same*, Mus. rep. 47 (for 1893) 1894. p.325-52.

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Livonia salt shaft (*continued*)

— — — Geol. rep. 12 (for 1892) 1893. p.13. *Same*, Mus. rep. 46 (for 1892) 1893. p.159.

Hall. Livonia Salt Shaft, its History and Geological Relations, etc. Geol. rep. 13 (for 1893) 1894. p.11-20. diagrams. 2 maps. *Same*, Mus. rep. 47 (for 1893) 1894. p.203-14. diagrams. map.

Map showing area of New York covered by Onondaga salt group, 37x14.5cm.

Map showing salt-producing district of western New York, 34.5x21.5cm (in Geol. rep. only).

Luther. Report on the Geology of the Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.21-130. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.215-324. pl. (phot.)

Lizards, *see* Reptiles.

Llandeilo flags. Conrad. Llandeilo Flags of Murchison. Pal. rep. (for 1837) 1838. p.114.

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Lockport dolomites. Clarke, Ruedemann & Luther. Lockport Dolomites of Brockport and Medina Quadrangles. Mus. bul. 52. 1902. p.517-18, 520-21.

Lockport group, *see* Niagara group.

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Mather. Marine Alluvial Detritus; Beaches, Shoals, Spits, etc. Geol. N. Y. pt1. 1843. p.24-27, 234-35.

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Mather. Geological Map of Long and Staten Islands with the Environs of New York. 129x56.5cm. Geol. N. Y. pt1. 1843. pl.1.

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Ries. Clays. Mus. bul. 12. 1895. p.121-33. *Same*, Mus. rep. 48 (for 1894) 1895. 1:121-33 (2d paging).

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See also Kings county; Nassau county; Queens, Borough of; Queens county; Suffolk county.

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^aFirst use of term.

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Map showing results of field work in Mohawk valley, 25x20.5cm.

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Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.

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Mollusca (*continued*)

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- Mollusca** (paleozoic), *see* Brachiopoda; Cephalopoda; Gastropoda; Lamellibranchiata; Pteropoda.
- Molluscoidea**, *see* Bryozoa.
- Molybdenite**. Beck. Sulphuret of Molybdenum. Min. rep. (for 1836) 1837. p.59 (ed. 2, p.61). Min. N. Y. 1842. p.438-39.
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- Monroe county**. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.76-77.
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Monroe county (*continued*)

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Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.59, 133; 10. 1890. p.253, 254, 261-62.

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Monroe shales. Ries. Monroe Shales of Orange County. Geol. rep. 15 (for 1895) 1897. p.404. *Same*, Mus. rep. 49 (for 1895) 1898. 2:404.

Montgomery county. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.77.

Cummings. Lower Silurian System of Eastern Montgomery County. Mus. bul. 34. 1900. p.415-68. 4pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 1:415-68. 4pl. (phot.) map.

Geologic map of Amsterdam quadrangle, 44x32.5cm.

Darton. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 13 (for 1893) 1894. p.407-29. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.601-23. pl. (phot.)

Darton. Faulted Region. Geol. rep. 14 (for 1894) 1895. p.11-12, 31-53. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:11-12, 31-53. pl. (phot.) map.

Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.

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Map of the "Noses" (colored).

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Vanuxem. Montgomery County. Geol. rep. 3d dist. (for 1837) 1838. p.257-66. Geol. N. Y. pt3. 1842. p.249-53.

Montrose sandstone (Oneonta; Portage). *a*Vanuxem. Montrose Sandstone, or Sandstone of Oneonta. Geol. rep. 3d dist. (for 1839) 1840. p.381.

See also Oneonta sandstone; Portage sandstone.

Moors quadrangle. Cushing. Geology of Rand Hill and Vicinity, Clinton County. Geol. rep. 19 (for 1899) 1901. p.r37-82. 2 maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r37-82. 2 maps.

Geologic maps of parts of Clinton county, 33x22, 10.5x5cm.

a First use of term.

- Mortar.** Ries. Mortar. Geol. rep. 17 (for 1897) 1899. p.386. *Same*, Mus. rep. 51 (for 1897) 1899. 2:386.
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 Conrad. Moscow shales. Pal. rep. (for 1839) 1840. p.206.
 Delafield. Moscow Shale of Seneca County. Ag. Soc. Trans. 10 (for 1850) 1851. p.455.
 Emmons. Moscow Shales. Ag. N. Y. 1846. 1:188.
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^aHall. Moscow Shales. Geol. rep. 4th dist. (for 1838) 1839. p.298-300. Geol. N. Y. pt4. 1843. p.187.
 Hall. Moscow Shale in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.163-64. Geol. N. Y. pt4. 1843. p.473.
 Hall. Moscow Shale of Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.430. Geol. N. Y. pt4. 1843. p.467.
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 Hall. Moscow Shale of Yates County. Geol. rep. 4th dist. (for 1838) 1839. p.316-17.
 Luther. Moscow Shales in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.42. *Same*, Mus. rep. 47 (for 1893) 1894. p.236.
 Wright. Moscow Shale in Yates County. Mus. rep. 35 (for 1881) 1884. p.203-4.
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- Mosquito.** Lintner. The Mosquito. Ent. rep. 12 (for 1896) 1897. p.319-35. *Same*, Mus. rep. 50 (for 1896) 1898. 1:319-35.
- Mosses.** Peck. Catalogue of Mosses presented to the State of New York by C. H. Peck. Mus. rep. 18 (for 1864) 1865. p.193-96.
 Peck. List of Mosses of the State of New York. Mus. rep. 19 (for 1865) 1866. p.42-70.
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- Moths,** *see* Lepidoptera.
- Mound builders,** *see* Aborigines.
- Mounds.** Vanuxem. Mounds. Geol. N. Y. pt3. 1842. p.247-48.
- Mt Marcy,** *see* Adirondacks.
- Mt Seward.** Colvin. Ascent of Mt Seward and its Barometrical Measurement. Mus. rep. 24 (for 1870) 1872. p.171-80. 1pl.
- Mountains.** Hall. Theory of Formation. Pal. N. Y. 1859. 3.66-73, 82-88, 95-96.
- Muck swamps.** Hall. Muck Swamps. Geol. rep. 4th dist. (for 1839) 1840. p.444-45. Geol. N. Y. pt4. 1843. p.359-60.
- Muriate of lime,** *see* Chlorid of lime.
- Muscovite.** Merrill. Localities. Mus. bul. 15. 1895. p.582. *Same*, Mus. rep. 48 (for 1894) 1895. 1:582 (2d paging).
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- Merrill. Muscovite.** Mus. bul. 19. 1898. p.122. *Same*, Mus. rep. 51 (for 1897) 1899. 1:122.

^aFirst use of term.

Muscovite (*continued*)

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See also New York State Museum.

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For dates of reports, *see* List of publications, p.264.

Nantucket pine moth. Felt. Nantucket Pine Moth. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.***Naphtha.** Beck. Naphtha. Min. N. Y. 1842. p.183.**Naples quadrangle.** Clarke. Stratigraphy of the Canandaigua and Naples Quadrangles. Mus. bul. 63. 2 maps. *In press.***^Naples shales (Cashaqua; Gardeau; Portage).** Clarke. Annelid Teeth from the Lower Portion of the Hamilton Group and from the Naples Shales of Ontario County, N. Y. Geol. rep. 6 (for 1886) 1887. p.30-32. 1pl.

Clarke. Naples Fauna. Geol. rep. 15 (for 1895) 1897. p.52-57. *Same*, Mus. rep. 49 (for 1895) 1898. 2:52-57.

Clarke. The Naples Fauna (fauna with *Manticoceras intumescens*) in Western New York. Geol. rep. 16 (for 1896) 1899. p.29-161. illus. 9pl. *Same*, Mus. rep. 50 (for 1896) 1899. 2:29-161. illus. 9pl.

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Naples valley. Luther. Stratigraphic Position of the Portage Sandstones in the Naples Valley and the Adjoining Region. Geol. rep. 15 (for 1895) 1897. p.13-14, 223-36. pl. (phot.) map. *Same*, Mus. rep. 49 (for 1895) 1898. 2:13-14, 223-36. pl. (phot.) map. Geologic map of the township of Naples, 17x16.5cm.**Nassau county.** Woodworth. Pleistocene Geology of Portions of Nassau County and Borough of Queens. Mus. bul. 48. 1901. p.617-64. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 4:617-64. pl. (phot.) maps.

Sketch map of a part of Long Island, 22.5x18.5cm.

Natrolite. Beck. Natrolite. Min. N. Y. 1842. p.344.

Whitlock. Natrolite. Mus. bul. 58. 1902. p.110.

Natron. Beck. Carbonate of Soda. Natron. Min. rep. (for 1838) 1839. p.17. Min. N. Y. 1842. p.197-98.**Natural gas.** Bishop. Natural Gas of Erie County. Geol. rep. 15 (for 1895) 1897. p. 346-89. *Same*, Mus. rep. 49 (for 1895) 1898. 2:346-89.

— Geol. rep. 17 (for 1897) 1899. p.25-26. *Same*, Mus. rep. 51 (for 1897) 1899. 2:25-26.

^aTerm proposed by J. M. Clarke in 1885, *see* U. S. Geol. Surv. Bul. 16. p.36.

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- Pachydiplax longipennis. Mus. bul. 47, p.526-27. *Same*, Mus. rep. 54, 4:526-27.
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- ^aVanuxem. Niagara Group. Geol. N. Y. pt3. 1842. p.90-94.
- Vanuxem. Niagara Group in Cayuga County. Geol. N. Y. pt3. 1842. p.286.
- Vanuxem. Niagara Group in Madison County. Geol. N. Y. pt3. 1842. p.272.
- Vanuxem. Niagara Group in Oneida County. Geol. N. Y. pt3. 1842. p.262-63.
- Vanuxem. Niagara Group in Onondaga County. Geol. N. Y. pt3. 1842. p.278.
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- ^bNiagara limestone (Lockport). Bishop. Niagara Limestone of Erie County. Geol. rep. 15 (for 1895) 1897. p.390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:390.
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- Ries. Niagara Limestone of Wayne County. Mus. bul. 44. 1901. p.828. *Same*, Mus. rep. 54 (for 1900) 1902. 3:828.
- Smock. Niagara Limestone. Mus. bul. 3. 1888. p.21; 10. 1890. p.211-12.
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- See also* Niagara falls.
- Niagara river, red sandstone,** *see* Red sandstone of Niagara.
- ^aNiagara shale (Rochester).** Emmons. Niagara Shale. Ag. N. Y. 1846. 1:151.
- Hall. Niagara Shale. Geol. N. Y. pt4. 1843. p.81-83.
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- Niccolite.** Whitlock. Niccolite. Mus. bul. 58. 1902. p.56.
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a First use of term.

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Pt1, Geologic map of parts of Chenango, Madison, Otsego, Schoharie and Albany counties, 58x33.5cm.
Pt2, Map showing distribution of middle and upper Devonian rocks in central-eastern New York, 61x38.5cm.
Map of Delaware county by W. L. Fisher, 34x32cm.
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^a First use of term.

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- v. 1 Organic Remains of the Lower Division of the New York System.
- v. 2 Organic Remains of Lower Middle Division of the New York System.
- v. 3 Organic Remains of the Lower Helderberg Group and the Oriskany Sandstone.
- v. 4 Fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups.
- v. 5 pt1 Lamellibranchiata 1. Monomyaria of the Upper Helderberg, Hamilton and Chemung Groups.
- — — Lamellibranchiata 2. Dimyaria of the Upper Helderberg, Hamilton, Portage and Chemung Groups.
- pt2 Gasteropoda Pteropoda and Cephalopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups.
- v. 6 Corals and Bryozoa of the Lower and Upper Helderberg and Hamilton Groups.
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- v. 8 pt1 Introduction to the Study of the Genera of the Paleozoic Brachiopoda.
- pt2 Paleozoic Brachiopoda.

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^aFirst use of term.

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a First use of term.

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^aFirst use of term in original publication of this article. Science. 1899. new ser. 10:877.

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^aTerm introduced by Dana. Manual of Geology. *rev. ed.* 1864, p.246.

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^bFirst use of term in original publication of this article. Science. 1899. new ser. 10:877.

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Map of New York showing atlas sheets surveyed by the United States Geological Survey in cooperation with the state engineer and surveyor. Jan. 1, 1900 (un-colored) 22.5x17.5cm.

See also Albion quadrangle; Amsterdam quadrangle; Brockport quadrangle; Brooklyn quadrangle; Canandaigua quadrangle; Harlem quadrangle; Hempstead quadrangle; Little Falls quadrangle; Medina quadrangle; Mooers quadrangle; Naples quadrangle; Olean quadrangle; Oyster Bay quadrangle; *also under names of counties*.

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See also Hudson river group; Utica shale.

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Emmons. Trap or Igneous Rocks of Warren County. Geol. N. Y. pt2. 1842. p.184-85.

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Kümmel. Trap Rocks of Rockland County. Geol. rep. 18 (for 1898) 1899. p.22-42. *Same*, Mus. rep. 52 (for 1898) 1900. 2:22-42.

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a Term first used by Conrad and Vanuxem in 1838.

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- Mather. Trenton Limestone Group. Geol. N. Y. pt1. 1843. p.397-402.
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- Ries. Trenton Limestones. Geol. rep. 17 (for 1897) 1899. p.359-62. *Same*, Mus. rep. 51 (for 1897) 1899. 2:359-62.
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- Ries. Trenton Limestone of Orange County. Geol. rep. 15 (for 1895) 1897. p.400-1. *Same*, Mus. rep. 49 (for 1895) 1898. 2:400-1.

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- Ries. Trenton Limestone of Warren County. Geol. rep. 17 (for 1897) 1899. p.459-60. *Same*, Mus. rep. 51 (for 1897) 1899. 2:459-60.
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- Vanuxem. Trenton Limestone in Montgomery County. Geol. rep. 3d dist. (for 1837) 1838. p.258. Geol. N. Y. pt3. 1842. p.250.
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^aTerm first used by Conrad and Vanuxem in 1838.

Triassic (continued)

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- Trilobita,** *see* Crustacea.
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- See also* Willemite.
- Troy.** Aldrich. Partial List of Shells found near Troy, N. Y. Mus. rep. 22 (for 1868) 1869. p.17-24.
- Smock. Stone Construction in. Mus. bul. 10. 1890. p.330-31.
- Tufa,** *see* Calcareous tufa; Ferruginous tufa.
- Tuliptree scale insect.** Felt. Tulip Tree Scale Insect. Ent. rep. 14 (for 1898) 1898. p.213-16. (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:213-16.
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- Luther.** Tully Limestone in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.38-42. *Same*, Mus. rep. 47 (for 1893) 1894. p.232-36.
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Tully limestone (*continued*)

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- Ries. Tully Limestone. Mus. bul. 44. 1901. p.766. *Same*, Mus. rep. 54 (for 1900) 1902. 3:766.
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^aFirst use of term.

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